



FCC TEST REPORT

FCC ID:2BGPB-B300

Report Number..... : ZKT-240430022E

Date of Test..... Apr. 30, 2024 to May 11, 2024

Date of issue..... : May 11, 2024

Total number of pages..... 63

Test Result..... : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Shenzhen Hongshang Semiconductor Technology Co. , Ltd.

Address : 4 / F, Building 3, New Yongfeng Industrial Park, Shilong Avenue, Shiyan Street, Baoan District, Shenzhen, China

Manufacturer's name : Shenzhen Hongshang Semiconductor Technology Co. , Ltd.

Address : 4 / F, Building 3, New Yongfeng Industrial Park, Shilong Avenue, Shiyan Street, Baoan District, Shenzhen, China

Test specification:

Standard..... : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-110_V0

Test Report Form(s) Originator..... : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : LED Therapy Light/ RED Light Therapy

Trademark : N/A



Model/Type reference..... : B300

M3, WK-K3, WK-K5, WK-K9, WK-K12, WK-K15, WK-K100,
WK-K105, WK-K120, WK-K140, WK-K150, WK-K155, WK-K240,
WK-K315, WK-K360, WK-K945, WK-K1200, WK-K1260,
WK-K1280, WK-K1400, WK-K2560, WK-K2800\WK-A60, WK-K70,
WK-K75, WK-K80, WK-M350, WK-M700, WK-M1050, WK-M1400,
WK-AP300, WK-AP1000, WK-AP1500, WK-NP300, WK-NP300,
WK-NP600, WK-NP-1200, WK-NP1800, WK-COB320,
WK-COB380, WK-COB400, WK-COB480, WK-COB680,
WK-COB2260, WK-COB2440, WK-COB8000, WK-MINI60, B150,
H150, H300, LED Therapy Light, Red Light Therapy, Red Light
Therapy Pad

Ratings..... : Input: AC 100-240V, 50/60Hz, 450W



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

**Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China**

Tested by (name + signature).....: Jim.Liu

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Approved (name + signature).....: Lake Xie





Table of Contents

	Page
1. VERSION	6
2. SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3. GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	10
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	10
3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	11
3.5EQUIPMENTS LIST FOR ALL TEST ITEMS	12
4. EMC EMISSION TEST	14
4.1 CONDUCTED EMISSION MEASUREMENT	14
4.1.1 POWER LINE CONDUCTED EMISSION Limits	14
4.1.2 TEST PROCEDURE	14
4.1.3 DEVIATION FROM TEST STANDARD	14
4.1.4 TEST SETUP	15
4.1.5 EUT OPERATING CONDITIONS	15
4.2.1 RADIATED EMISSION LIMITS	18
4.2.2 TEST PROCEDURE	19
4.2.3 DEVIATION FROM TEST STANDARD	19
4.2.4 TEST SETUP	19
4.2.5 EUT OPERATING CONDITIONS	20
4.2.6 TEST RESULTS	20
5.RADIATED BAND EMISSIONMEASUREMENT	31
5.1 TEST REQUIREMENT:	31
5.2 TEST PROCEDURE	31
5.3 DEVIATION FROM TEST STANDARD	31
5.4 TEST SETUP	32
5.5 EUT OPERATING CONDITIONS	32
5.6 TEST RESULT	33
6.POWER SPECTRAL DENSITY TEST	35
6.1 APPLIED PROCEDURES / LIMIT	35
6.2 TEST PROCEDURE	35
6.3 DEVIATION FROM STANDARD	35
6.4 TEST SETUP	35
6.5 EUT OPERATION CONDITIONS	35
6.6 TEST RESULT	36



7. CHANNEL BANDWIDTH OCCUPY BANDWIDTH	44
7.1 APPLIED PROCEDURES / LIMIT	44
7.2 TEST PROCEDURE	44
7.3 DEVIATION FROM STANDARD	44
7.4 TEST SETUP	44
7.5 EUT OPERATION CONDITIONS	44
7.6 TEST RESULT	45
8. PEAK OUTPUT POWER TEST	48
8.1 APPLIED PROCEDURES/LIMIT	48
8.2 TEST PROCEDURE	48
8.3 DEVIATION FROM STANDARD	48
8.4 TEST SETUP	48
8.5 EUT OPERATION CONDITIONS	48
8.6 TEST RESULT	49
9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION	50
9.1 APPLICABLE STANDARD	50
9.2 TEST PROCEDURE	50
9.3 DEVIATION FROM STANDARD	50
9.4 TEST SETUP	50
9.5 EUT OPERATION CONDITIONS	50
9.6 TEST RESULTS	50
10. DUTY CYCLE	59
10.1 APPLIED PROCEDURES / LIMIT	59
10.2 DEVIATION FROM STANDARD	59
10.3 TEST SETUP	59
11. ANTENNA REQUIREMENT	62
12. TEST SETUP PHOTO	63
13. EUT CONSTRUCTIONAL DETAILS	63



1. VERSION

ReportNo.	Version	Description	Approved
ZKT-240430022E	Rev.01	Initial issue of report	May 11, 2024



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	-6dB Channel Bandwidth	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033
CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$ · where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ · providing a level of confidence of approximately 95 % .

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8MHz
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59°C



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	LED Therapy Light/ RED Light Therapy
Model No.:	B300
Model Different.:	All the model are the same circuit and RF module, only the model name is different.
Serial No.:	M3, WK-K3, WK-K5, WK-K9, WK-K12, WK-K15, WK-K100, WK-K105, WK-K120, WK-K140, WK-K150, WK-K155, WK-K240, WK-K315, WK-K360, WK-K945, WK-K1200, WK-K1260, WK-K1280, WK-K1400, WK-K2560, WK-K2800\WK-A60, WK-K70, WK-K75, WK-K80, WK-M350, WK-M700, WK-M1050, WK-M1400, WK-AP300, WK-AP1000, WK-AP1500, WK-NP300, WK-NP300, WK-NP600, WK-NP-1200, WK-NP1800, WK-COB320, WK-COB380, WK-COB400, WK-COB480, WK-COB680, WK-COB2260, WK-COB2440, WK-COB8000, WK-MINI60, B150, H150, H300, LED Therapy Light, Red Light Therapy, Red Light Therapy Pad
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/802.11n(H20/H40): Orthogonal Frequency Division Multiplexing(OFDM)
Frequency range:	20M: 2412MHz-2462MHz 40M: 2422MHz-2452MHz
Antenna Type and Antenna gain:	802.11b/g/n20/n40: PCB Antenna Antenna gain: 1.68dBi
Power Supply:	Input: AC 100-240V, 50/60Hz, 450W
Adapter:	N/A



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

Test Software	Dbgmon (CMD) Test Tool
Powerlevelsetup	<17dBm

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission



Radiated Emission





3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	LED Therapy Light/ RED Light Therapy	N/A	B300	See page 9	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Nov. 14, 2023	Nov. 13, 2024
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Nov. 02, 2023	Nov. 01, 2024
3	Test Cable	N/A	C-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
4	Test Cable	N/A	C-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
5	Test Cable	N/A	C-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Nov. 02, 2023	Nov. 01, 2024
7	Triple-Loop Antenna	N/A	RF300	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
8	Absorbing Clamp	DZ	ZN23201	15034	N/A	Nov. 07, 2023	Nov. 06, 2024
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation emissions & Radio Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Nov. 02, 2023	Nov. 01, 2024
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Nov. 02, 2023	Nov. 01, 2024
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Nov. 02, 2023	Nov. 01, 2024
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	N/A	Nov. 13, 2023	Nov. 12, 2024
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Nov. 13, 2023	Nov. 12, 2024
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Nov. 13, 2023	Nov. 12, 2024
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Nov. 16, 2023	Nov. 15, 2024
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Nov. 02, 2023	Nov. 01, 2024
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Nov. 02, 2023	Nov. 01, 2024
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Nov. 02, 2023	Nov. 01, 2024
11	Test Cable	N/A	R-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
12	Test Cable	N/A	R-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
13	Test Cable	N/A	R-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
14	Test Cable	N/A	RF-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
15	Test Cable	N/A	RF-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
16	Test Cable	N/A	RF-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024



17	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Nov. 02, 2023	Nov. 01, 2024
18	Signal Generator	Agilent	N5182A	N/A	A.01.87	Nov. 02, 2023	Nov. 01, 2024
19	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Nov. 16, 2023	Nov. 15, 2024
20	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Nov. 02, 2023	Nov. 01, 2024
21	Power Meter	KEYSIGHT	N1912A P	N/A	A.05.00	Nov. 02, 2023	Nov. 01, 2024
22	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
23	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
24	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\
25	Turntable	MF	MF-7802BS	N/A	N/A	\	\
26	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

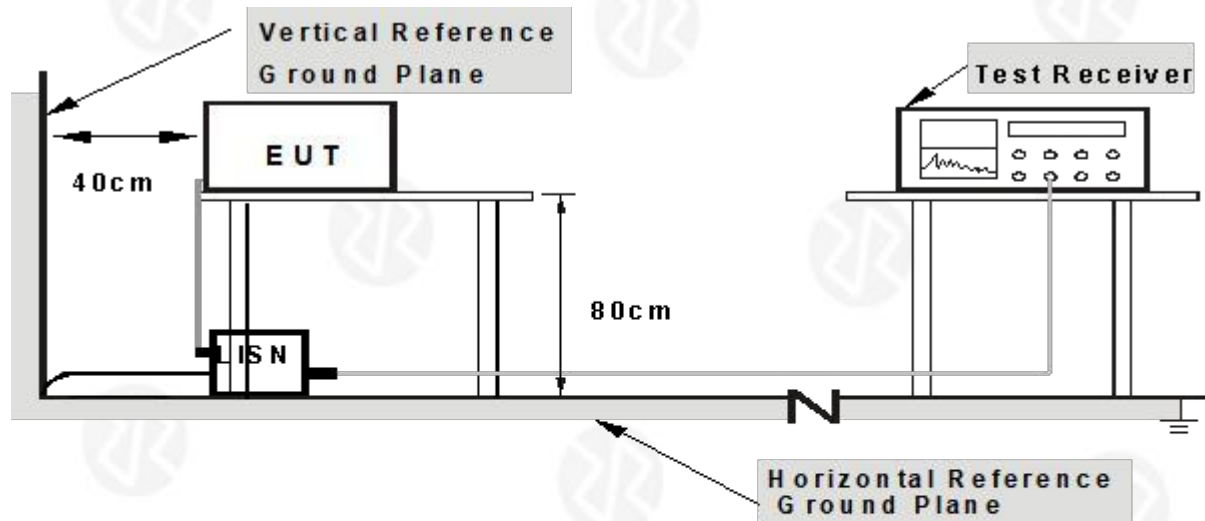
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

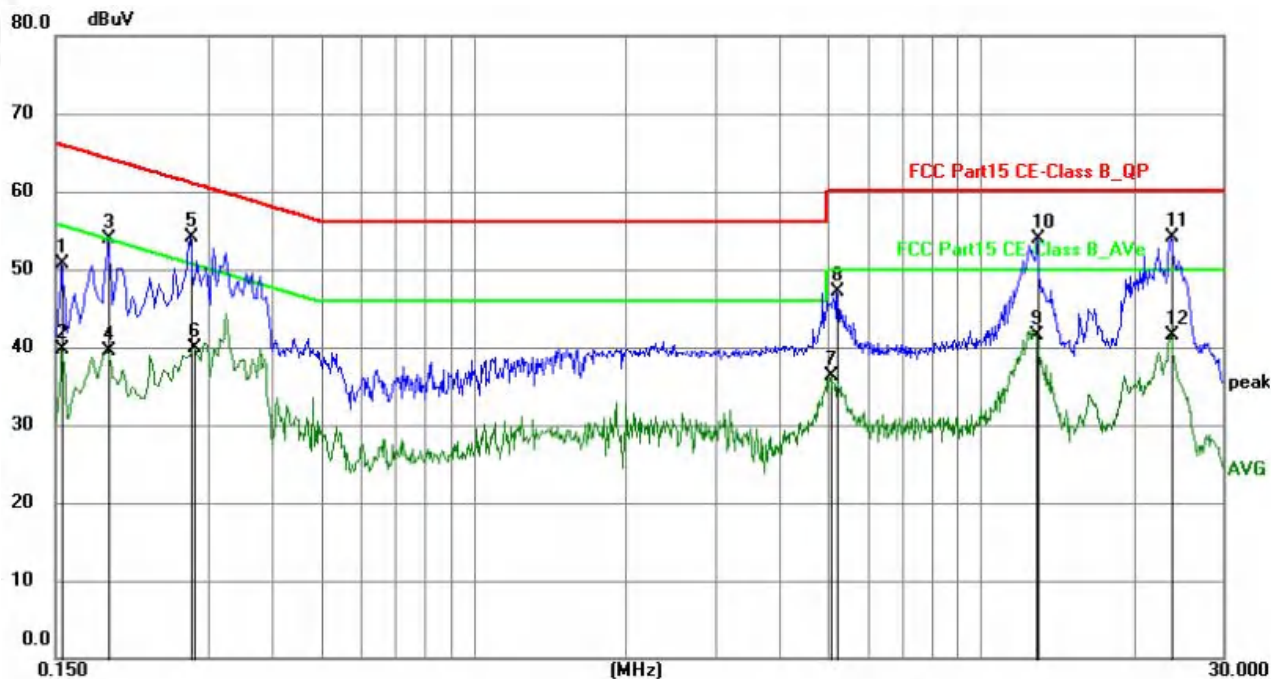
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.



4.1.6 Test Result

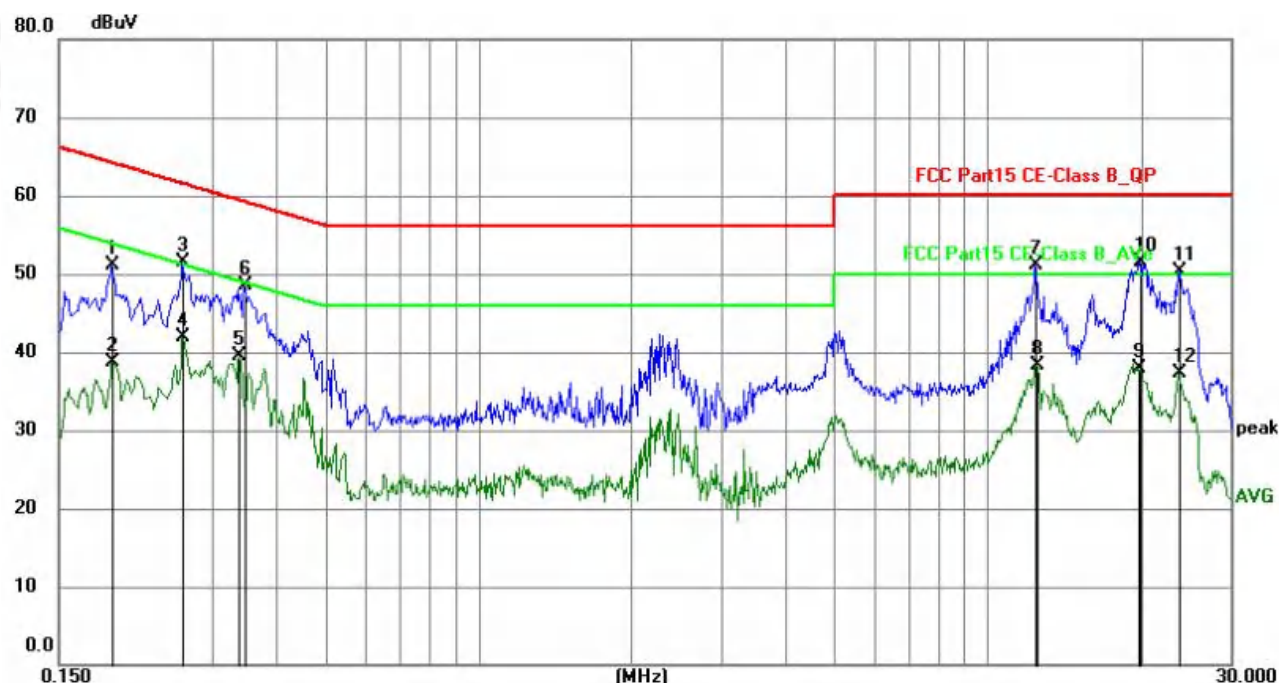
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz	Mode:	802.11n(20) 2437MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1544	29.91	20.81	50.72	65.76	-15.04	QP	P	
2	0.1544	18.94	20.81	39.75	55.76	-16.01	AVG	P	
3	0.1905	33.06	20.93	53.99	64.01	-10.02	QP	P	
4	0.1905	18.58	20.93	39.51	54.01	-14.50	AVG	P	
5	0.2760	33.23	20.89	54.12	60.94	-6.82	QP	P	
6	0.2805	19.03	20.89	39.92	50.80	-10.88	AVG	P	
7	5.0594	15.64	20.74	36.38	50.00	-13.62	AVG	P	
8	5.2035	26.28	20.74	47.02	60.00	-12.98	QP	P	
9	12.7858	20.93	20.63	41.56	50.00	-8.44	AVG	P	
10	12.9525	33.36	20.62	53.98	60.00	-6.02	QP	P	
11	23.7255	33.44	20.68	54.12	60.00	-5.88	QP	P	
12	23.7255	20.73	20.68	41.41	50.00	-8.59	AVG	P	



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Mode:	802.11n(20) 2437MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1905	30.22	20.93	51.15	64.01	-12.86	QP	P	
2	0.1905	17.85	20.93	38.78	54.01	-15.23	AVG	P	
3	0.2625	30.60	20.91	51.51	61.35	-9.84	QP	P	
4	0.2625	21.03	20.91	41.94	51.35	-9.41	AVG	P	
5	0.3391	18.65	20.87	39.52	49.23	-9.71	AVG	P	
6	0.3478	27.57	20.87	48.44	59.01	-10.57	QP	P	
7	12.4395	30.41	20.63	51.04	60.00	-8.96	QP	P	
8	12.5114	17.62	20.63	38.25	50.00	-11.75	AVG	P	
9	19.8418	17.50	20.49	37.99	50.00	-12.01	AVG	P	
10	19.9005	31.07	20.49	51.56	60.00	-8.44	QP	P	
11	23.7883	29.55	20.68	50.23	60.00	-9.77	QP	P	
12	23.7883	16.69	20.68	37.37	50.00	-12.63	AVG	P	

Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurements were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not shown in the test report.
4. Final Level = Reading level + Correct Factor
5. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor
6. Margin = Measurement Level - Limit
7. The test data shows only the worst case 802.11n(20) 2437MHz



4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (microlvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi-Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
- Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

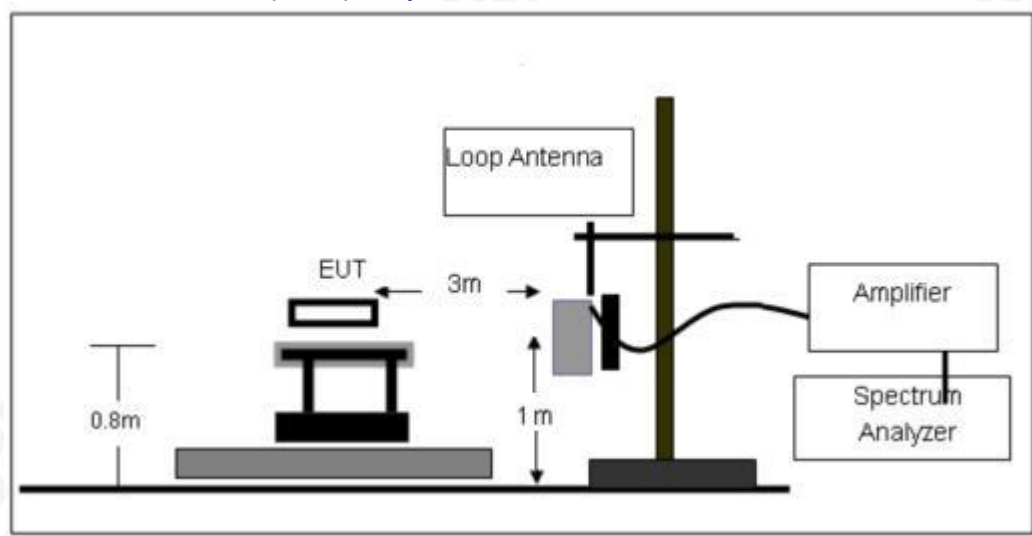
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

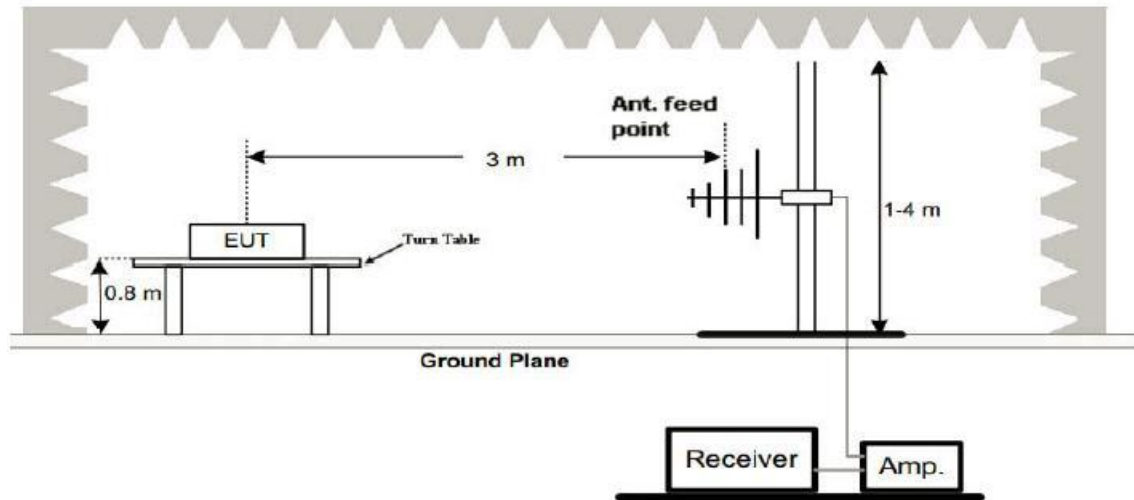
4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

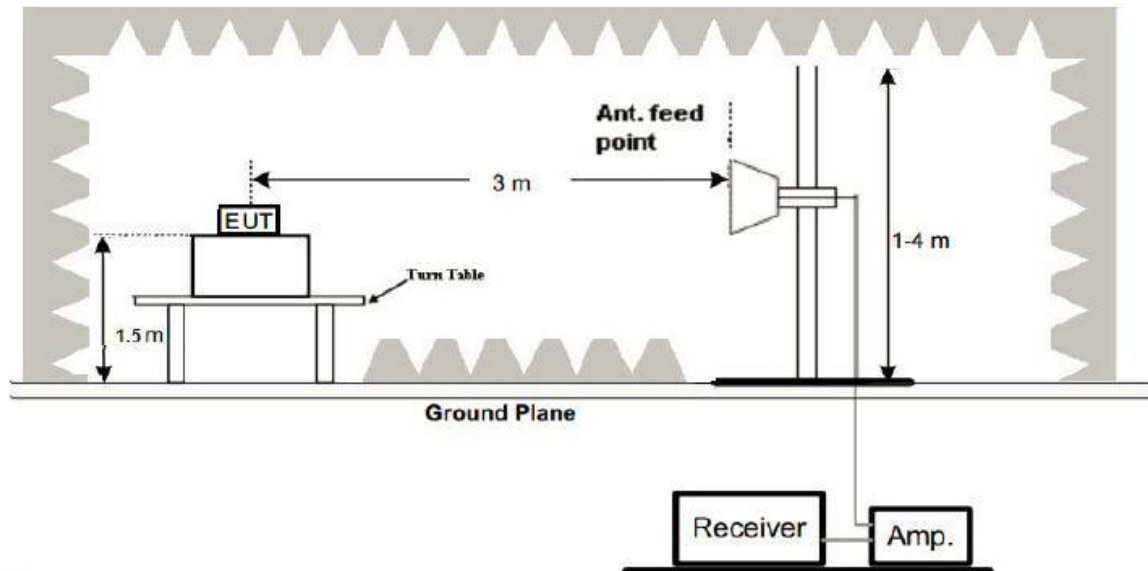




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS

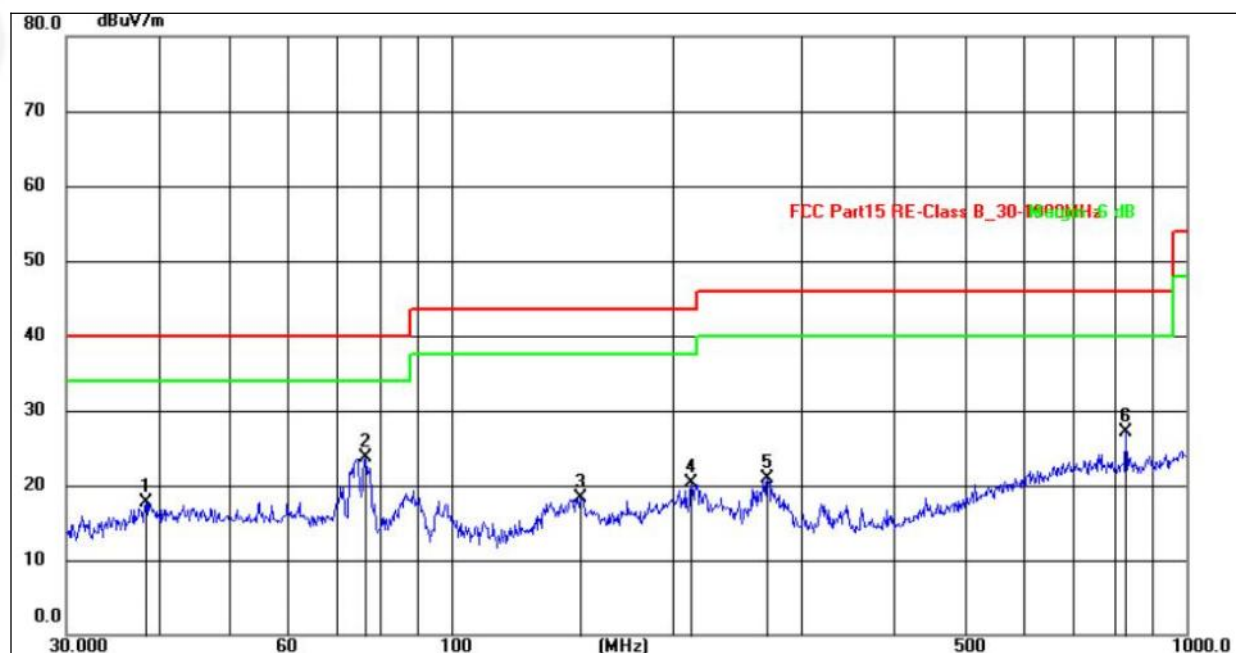
Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



Between 30MHz – 1GHz

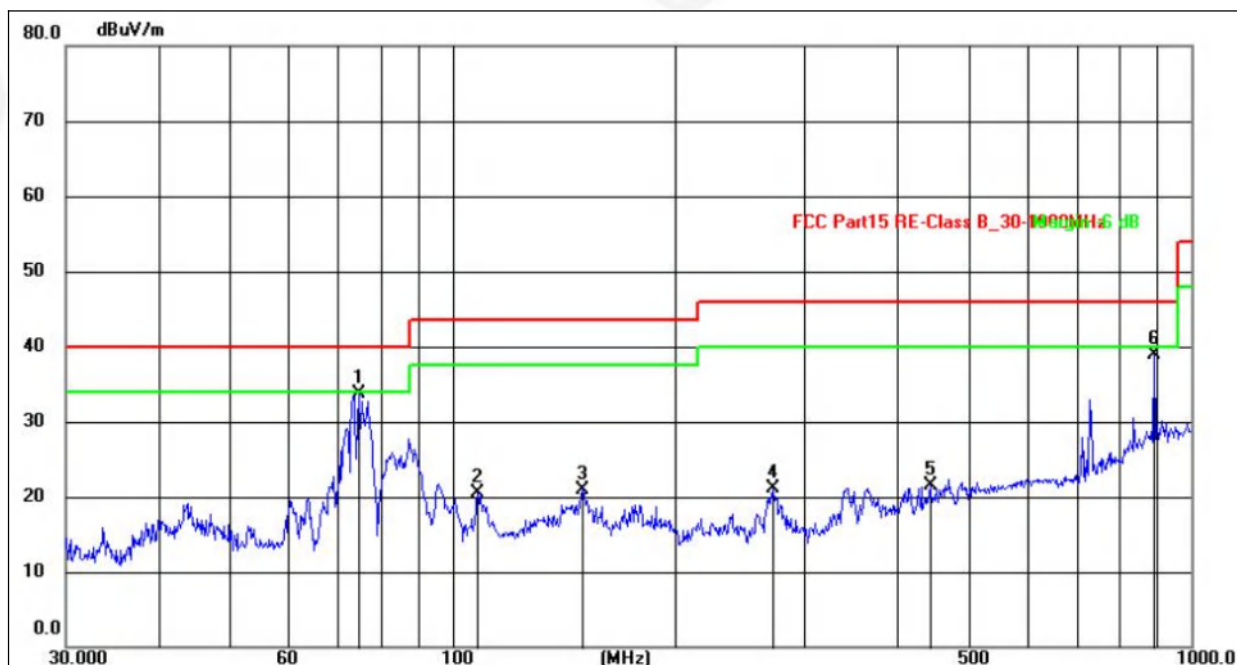
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode	802.11n(20) 2437MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.4808	32.10	-14.40	17.70	40.00	-22.30	QP
2	76.5119	42.19	-18.58	23.61	40.00	-16.39	QP
3	150.0107	34.94	-16.56	18.38	43.50	-25.12	QP
4	212.2692	38.49	-18.17	20.32	43.50	-23.18	QP
5	269.4282	35.90	-14.99	20.91	46.00	-25.09	QP
6	827.4932	34.00	-6.96	27.04	46.00	-18.96	QP



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode	802.11g 2437MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	74.6568	54.18	-20.52	33.66	40.00	-6.34	QP
2	108.2664	41.79	-21.29	20.50	43.50	-23.00	QP
3	150.0107	41.56	-20.56	21.00	43.50	-22.50	QP
4	272.2776	40.39	-19.21	21.18	46.00	-24.82	QP
5	443.2941	35.09	-13.54	21.55	46.00	-24.45	QP
6	890.7277	39.88	-1.00	38.88	46.00	-7.12	QP

Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor
5. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor
6. Margin = Measurement Level - Limit
7. The test data shows only the worst case 802.11n(20) 2437MHz



1GHz~25GHz

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	50.00	30.55	5.77	24.66	49.88	74.00	-24.12	PK
V	4824.00	43.73	30.55	5.77	24.66	43.61	54.00	-10.39	AV
V	7236.00	52.51	30.33	6.32	24.55	53.05	74.00	-20.95	PK
V	7236.00	43.74	30.33	6.32	24.55	44.28	54.00	-9.72	AV
V	9648.00	54.76	30.85	7.45	24.69	56.05	74.00	-17.95	PK
V	9648.00	43.09	30.85	7.45	24.69	44.38	54.00	-9.62	AV
V	12060.00	53.20	31.02	8.99	25.57	56.74	74.00	-17.26	PK
V	12060.00	43.35	31.02	8.99	25.57	46.89	54.00	-7.11	AV
H	4824.00	51.89	30.55	5.77	24.66	51.77	74.00	-22.23	PK
H	4824.00	43.44	30.55	5.77	24.66	43.32	54.00	-10.68	AV
H	7236.00	50.11	30.33	6.32	24.55	50.65	74.00	-23.35	PK
H	7236.00	43.43	30.33	6.32	24.55	43.97	54.00	-10.03	AV
H	9648.00	52.15	30.85	7.45	24.69	53.44	74.00	-20.56	PK
H	9648.00	43.38	30.85	7.45	24.69	44.67	54.00	-9.33	AV
H	12060.00	50.92	31.02	8.99	25.57	54.46	74.00	-19.54	PK
H	12060.00	43.45	31.02	8.99	25.57	46.99	54.00	-7.01	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	53.09	30.55	5.77	24.66	52.97	74.00	-21.03	PK
V	4874.00	43.65	30.55	5.77	24.66	43.53	54.00	-10.47	AV
V	7311.00	53.36	30.33	6.32	24.55	53.90	74.00	-20.10	PK
V	7311.00	43.76	30.33	6.32	24.55	44.30	54.00	-9.70	AV
V	9748.00	51.87	30.85	7.45	24.69	53.16	74.00	-20.84	PK
V	9748.00	43.62	30.85	7.45	24.69	44.91	54.00	-9.09	AV
V	12185.00	54.48	31.02	8.99	25.57	58.02	74.00	-15.98	PK
V	12185.00	43.18	31.02	8.99	25.57	46.72	54.00	-7.28	AV
H	4874.00	51.17	30.55	5.77	24.66	51.05	74.00	-22.95	PK
H	4874.00	43.38	30.55	5.77	24.66	43.26	54.00	-10.74	AV
H	7311.00	54.82	30.33	6.32	24.55	55.36	74.00	-18.64	PK
H	7311.00	43.84	30.33	6.32	24.55	44.38	54.00	-9.62	AV
H	9748.00	52.52	30.85	7.45	24.69	53.81	74.00	-20.19	PK
H	9748.00	43.85	30.85	7.45	24.69	45.14	54.00	-8.86	AV
H	12185.00	51.52	31.02	8.99	25.57	55.06	74.00	-18.94	PK
H	12185.00	43.76	31.02	8.99	25.57	47.30	54.00	-6.70	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	53.66	30.55	5.77	24.66	53.54	74.00	-20.46	PK
V	4924.00	43.72	30.55	5.77	24.66	43.60	54.00	-10.40	AV
V	7386.00	51.63	30.33	6.32	24.55	52.17	74.00	-21.83	PK
V	7386.00	43.41	30.33	6.32	24.55	43.95	54.00	-10.05	AV
V	9848.00	52.25	30.85	7.45	24.69	53.54	74.00	-20.46	PK
V	9848.00	43.92	30.85	7.45	24.69	45.21	54.00	-8.79	AV
V	12310.00	51.88	31.02	8.99	25.57	55.42	74.00	-18.58	PK
V	12310.00	43.55	31.02	8.99	25.57	47.09	54.00	-6.91	AV
H	4924.00	52.54	30.55	5.77	24.66	52.42	74.00	-21.58	PK
H	4924.00	43.86	30.55	5.77	24.66	43.74	54.00	-10.26	AV
H	7386.00	53.91	30.33	6.32	24.55	54.45	74.00	-19.55	PK
H	7386.00	43.14	30.33	6.32	24.55	43.68	54.00	-10.32	AV
H	9848.00	53.33	30.85	7.45	24.69	54.62	74.00	-19.38	PK
H	9848.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
H	12310.00	54.64	31.02	8.99	25.57	58.18	74.00	-15.82	PK
H	12310.00	43.53	31.02	8.99	25.57	47.07	54.00	-6.93	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	53.82	30.55	5.77	24.66	53.70	74.00	-20.30	PK
V	4824.00	43.14	30.55	5.77	24.66	43.02	54.00	-10.98	AV
V	7236.00	51.02	30.33	6.32	24.55	51.56	74.00	-22.44	PK
V	7236.00	43.32	30.33	6.32	24.55	43.86	54.00	-10.14	AV
V	9648.00	54.25	30.85	7.45	24.69	55.54	74.00	-18.46	PK
V	9648.00	43.21	30.85	7.45	24.69	44.50	54.00	-9.50	AV
V	12060.00	50.43	31.02	8.99	25.57	53.97	74.00	-20.03	PK
V	12060.00	43.20	31.02	8.99	25.57	46.74	54.00	-7.26	AV
H	4824.00	51.35	30.55	5.77	24.66	51.23	74.00	-22.77	PK
H	4824.00	43.98	30.55	5.77	24.66	43.86	54.00	-10.14	AV
H	7236.00	51.78	30.33	6.32	24.55	52.32	74.00	-21.68	PK
H	7236.00	43.83	30.33	6.32	24.55	44.37	54.00	-9.63	AV
H	9648.00	51.93	30.85	7.45	24.69	53.22	74.00	-20.78	PK
H	9648.00	43.58	30.85	7.45	24.69	44.87	54.00	-9.13	AV
H	12060.00	52.23	31.02	8.99	25.57	55.77	74.00	-18.23	PK
H	12060.00	43.45	31.02	8.99	25.57	46.99	54.00	-7.01	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	53.54	30.55	5.77	24.66	53.42	74.00	-20.58	PK
V	4874.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
V	7311.00	50.97	30.33	6.32	24.55	51.51	74.00	-22.49	PK
V	7311.00	43.21	30.33	6.32	24.55	43.75	54.00	-10.25	AV
V	9748.00	54.40	30.85	7.45	24.69	55.69	74.00	-18.31	PK
V	9748.00	43.64	30.85	7.45	24.69	44.93	54.00	-9.07	AV
V	12185.00	54.55	31.02	8.99	25.57	58.09	74.00	-15.91	PK
V	12185.00	43.22	31.02	8.99	25.57	46.76	54.00	-7.24	AV
H	4874.00	51.05	30.55	5.77	24.66	50.93	74.00	-23.07	PK
H	4874.00	43.76	30.55	5.77	24.66	43.64	54.00	-10.36	AV
H	7311.00	52.68	30.33	6.32	24.55	53.22	74.00	-20.78	PK
H	7311.00	43.53	30.33	6.32	24.55	44.07	54.00	-9.93	AV
H	9748.00	51.09	30.85	7.45	24.69	52.38	74.00	-21.62	PK
H	9748.00	43.37	30.85	7.45	24.69	44.66	54.00	-9.34	AV
H	12185.00	52.49	31.02	8.99	25.57	56.03	74.00	-17.97	PK
H	12185.00	43.89	31.02	8.99	25.57	47.43	54.00	-6.57	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	54.22	30.55	5.77	24.66	54.10	74.00	-19.90	PK
V	4924.00	43.54	30.55	5.77	24.66	43.42	54.00	-10.58	AV
V	7386.00	51.68	30.33	6.32	24.55	52.22	74.00	-21.78	PK
V	7386.00	43.41	30.33	6.32	24.55	43.95	54.00	-10.05	AV
V	9848.00	51.97	30.85	7.45	24.69	53.26	74.00	-20.74	PK
V	9848.00	43.59	30.85	7.45	24.69	44.88	54.00	-9.12	AV
V	12310.00	51.92	31.02	8.99	25.57	55.46	74.00	-18.54	PK
V	12310.00	43.87	31.02	8.99	25.57	47.41	54.00	-6.59	AV
H	4924.00	53.21	30.55	5.77	24.66	53.09	74.00	-20.91	PK
H	4924.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
H	7386.00	51.53	30.33	6.32	24.55	52.07	74.00	-21.93	PK
H	7386.00	43.12	30.33	6.32	24.55	43.66	54.00	-10.34	AV
H	9848.00	54.32	30.85	7.45	24.69	55.61	74.00	-18.39	PK
H	9848.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
H	12310.00	50.65	31.02	8.99	25.57	54.19	74.00	-19.81	PK
H	12310.00	43.52	31.02	8.99	25.57	47.06	54.00	-6.94	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	53.41	30.55	5.77	24.66	53.29	74.00	-20.71	PK
V	4824.00	43.20	30.55	5.77	24.66	43.08	54.00	-10.92	AV
V	7236.00	51.20	30.33	6.32	24.55	51.74	74.00	-22.26	PK
V	7236.00	43.05	30.33	6.32	24.55	43.59	54.00	-10.41	AV
V	9648.00	53.98	30.85	7.45	24.69	55.27	74.00	-18.73	PK
V	9648.00	43.29	30.85	7.45	24.69	44.58	54.00	-9.42	AV
V	12060.00	53.42	31.02	8.99	25.57	56.96	74.00	-17.04	PK
V	12060.00	43.92	31.02	8.99	25.57	47.46	54.00	-6.54	AV
H	4824.00	54.62	30.55	5.77	24.66	54.50	74.00	-19.50	PK
H	4824.00	43.12	30.55	5.77	24.66	43.00	54.00	-11.00	AV
H	7236.00	54.79	30.33	6.32	24.55	55.33	74.00	-18.67	PK
H	7236.00	43.66	30.33	6.32	24.55	44.20	54.00	-9.80	AV
H	9648.00	51.66	30.85	7.45	24.69	52.95	74.00	-21.05	PK
H	9648.00	43.44	30.85	7.45	24.69	44.73	54.00	-9.27	AV
H	12060.00	50.97	31.02	8.99	25.57	54.51	74.00	-19.49	PK
H	12060.00	43.32	31.02	8.99	25.57	46.86	54.00	-7.14	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	50.78	30.55	5.77	24.66	50.66	74.00	-23.34	PK
V	4874.00	43.17	30.55	5.77	24.66	43.05	54.00	-10.95	AV
V	7311.00	54.98	30.33	6.32	24.55	55.52	74.00	-18.48	PK
V	7311.00	43.14	30.33	6.32	24.55	43.68	54.00	-10.32	AV
V	9748.00	53.26	30.85	7.45	24.69	54.55	74.00	-19.45	PK
V	9748.00	43.31	30.85	7.45	24.69	44.60	54.00	-9.40	AV
V	12185.00	53.98	31.02	8.99	25.57	57.52	74.00	-16.48	PK
V	12185.00	43.58	31.02	8.99	25.57	47.12	54.00	-6.88	AV
H	4874.00	52.20	30.55	5.77	24.66	52.08	74.00	-21.92	PK
H	4874.00	43.55	30.55	5.77	24.66	43.43	54.00	-10.57	AV
H	7311.00	50.95	30.33	6.32	24.55	51.49	74.00	-22.51	PK
H	7311.00	43.58	30.33	6.32	24.55	44.12	54.00	-9.88	AV
H	9748.00	50.29	30.85	7.45	24.69	51.58	74.00	-22.42	PK
H	9748.00	43.75	30.85	7.45	24.69	45.04	54.00	-8.96	AV
H	12185.00	53.80	31.02	8.99	25.57	57.34	74.00	-16.66	PK
H	12185.00	43.98	31.02	8.99	25.57	47.52	54.00	-6.48	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	50.17	30.55	5.77	24.66	50.05	74.00	-23.95	PK
V	4924.00	43.88	30.55	5.77	24.66	43.76	54.00	-10.24	AV
V	7386.00	50.81	30.33	6.32	24.55	51.35	74.00	-22.65	PK
V	7386.00	43.60	30.33	6.32	24.55	44.14	54.00	-9.86	AV
V	9848.00	53.78	30.85	7.45	24.69	55.07	74.00	-18.93	PK
V	9848.00	43.30	30.85	7.45	24.69	44.59	54.00	-9.41	AV
V	12310.00	52.75	31.02	8.99	25.57	56.29	74.00	-17.71	PK
V	12310.00	43.80	31.02	8.99	25.57	47.34	54.00	-6.66	AV
H	4924.00	51.40	30.55	5.77	24.66	51.28	74.00	-22.72	PK
H	4924.00	43.26	30.55	5.77	24.66	43.14	54.00	-10.86	AV
H	7386.00	53.44	30.33	6.32	24.55	53.98	74.00	-20.02	PK
H	7386.00	43.56	30.33	6.32	24.55	44.10	54.00	-9.90	AV
H	9848.00	52.03	30.85	7.45	24.69	53.32	74.00	-20.68	PK
H	9848.00	43.99	30.85	7.45	24.69	45.28	54.00	-8.72	AV
H	12310.00	50.29	31.02	8.99	25.57	53.83	74.00	-20.17	PK
H	12310.00	43.92	31.02	8.99	25.57	47.46	54.00	-6.54	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n40

Polar (H/V)	Frequeunc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2422MHz									
V	4844.00	53.27	30.55	5.77	24.66	53.15	74.00	-20.85	PK
V	4844.00	43.96	30.55	5.77	24.66	43.84	54.00	-10.16	AV
V	7266.00	53.12	30.33	6.32	24.55	53.66	74.00	-20.34	PK
V	7266.00	43.71	30.33	6.32	24.55	44.25	54.00	-9.75	AV
V	9688.00	54.89	30.85	7.45	24.69	56.18	74.00	-17.82	PK
V	9688.00	43.57	30.85	7.45	24.69	44.86	54.00	-9.14	AV
V	12110.00	52.07	31.02	8.99	25.57	55.61	74.00	-18.39	PK
V	12110.00	43.20	31.02	8.99	25.57	46.74	54.00	-7.26	AV
H	4844.00	54.84	30.55	5.77	24.66	54.72	74.00	-19.28	PK
H	4844.00	43.91	30.55	5.77	24.66	43.79	54.00	-10.21	AV
H	7266.00	52.71	30.33	6.32	24.55	53.25	74.00	-20.75	PK
H	7266.00	43.66	30.33	6.32	24.55	44.20	54.00	-9.80	AV
H	9688.00	50.62	30.85	7.45	24.69	51.91	74.00	-22.09	PK
H	9688.00	43.25	30.85	7.45	24.69	44.54	54.00	-9.46	AV
H	12110.00	51.81	31.02	8.99	25.57	55.35	74.00	-18.65	PK
H	12110.00	43.24	31.02	8.99	25.57	46.78	54.00	-7.22	AV

Polar (H/V)	Frequeunc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	52.30	30.55	5.77	24.66	52.18	74.00	-21.82	PK
V	4874.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
V	7311.00	53.83	30.33	6.32	24.55	54.37	74.00	-19.63	PK
V	7311.00	43.51	30.33	6.32	24.55	44.05	54.00	-9.95	AV
V	9748.00	52.15	30.85	7.45	24.69	53.44	74.00	-20.56	PK
V	9748.00	43.36	30.85	7.45	24.69	44.65	54.00	-9.35	AV
V	12185.00	52.83	31.02	8.99	25.57	56.37	74.00	-17.63	PK
V	12185.00	43.97	31.02	8.99	25.57	47.51	54.00	-6.49	AV
H	4874.00	53.00	30.55	5.77	24.66	52.88	74.00	-21.12	PK
H	4874.00	43.01	30.55	5.77	24.66	42.89	54.00	-11.11	AV
H	7311.00	51.84	30.33	6.32	24.55	52.38	74.00	-21.62	PK
H	7311.00	43.38	30.33	6.32	24.55	43.92	54.00	-10.08	AV
H	9748.00	52.41	30.85	7.45	24.69	53.70	74.00	-20.30	PK
H	9748.00	43.60	30.85	7.45	24.69	44.89	54.00	-9.11	AV
H	12185.00	51.73	31.02	8.99	25.57	55.27	74.00	-18.73	PK
H	12185.00	43.16	31.02	8.99	25.57	46.70	54.00	-7.30	AV



Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	54.04	30.55	5.77	24.66	53.92	74.00	-20.08	PK
V	4904.00	43.05	30.55	5.77	24.66	42.93	54.00	-11.07	AV
V	7356.00	50.69	30.33	6.32	24.55	51.23	74.00	-22.77	PK
V	7356.00	43.06	30.33	6.32	24.55	43.60	54.00	-10.40	AV
V	9808.00	53.32	30.85	7.45	24.69	54.61	74.00	-19.39	PK
V	9808.00	43.55	30.85	7.45	24.69	44.84	54.00	-9.16	AV
V	12260.00	51.24	31.02	8.99	25.57	54.78	74.00	-19.22	PK
V	12260.00	43.78	31.02	8.99	25.57	47.32	54.00	-6.68	AV
H	4904.00	50.28	30.55	5.77	24.66	50.16	74.00	-23.84	PK
H	4904.00	43.71	30.55	5.77	24.66	43.59	54.00	-10.41	AV
H	7356.00	54.99	30.33	6.32	24.55	55.53	74.00	-18.47	PK
H	7356.00	43.81	30.33	6.32	24.55	44.35	54.00	-9.65	AV
H	9808.00	53.78	30.85	7.45	24.69	55.07	74.00	-18.93	PK
H	9808.00	43.49	30.85	7.45	24.69	44.78	54.00	-9.22	AV
H	12260.00	50.76	31.02	8.99	25.57	54.30	74.00	-19.70	PK
H	12260.00	43.95	31.02	8.99	25.57	47.49	54.00	-6.51	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above	Peak	1MHz	3MHz	Peak
	1GHz	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the highest channel

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

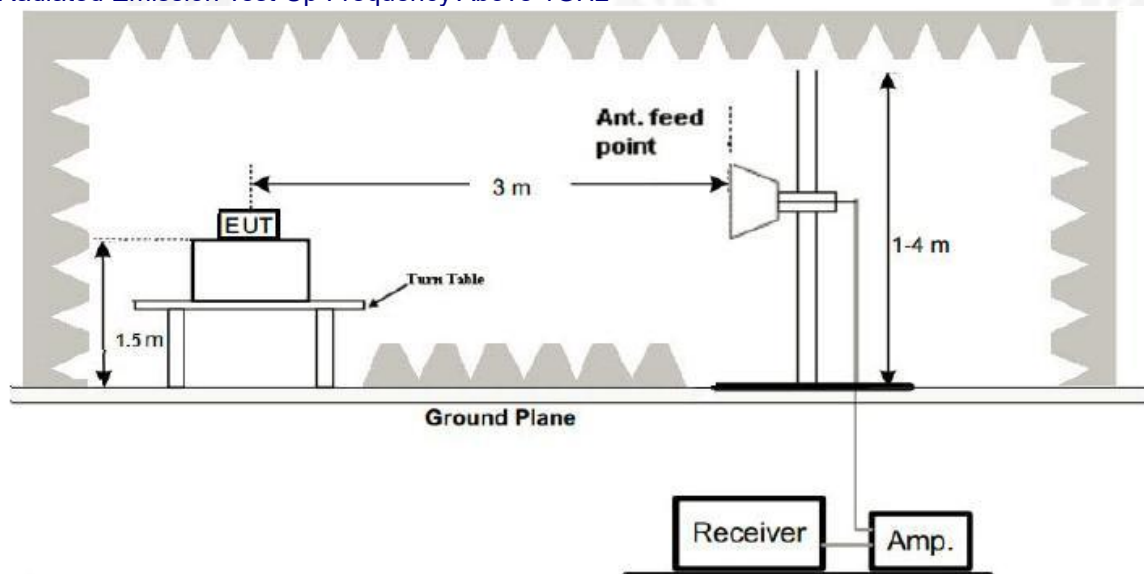
5.3 DEVIATION FROM TEST STANDARD

No deviation



5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBUV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBUV/m)	Limit (dBUV/ m)	Detec tor Type	Result
802.11b	LowChannel 2412MHz									
	H	2390.00	53.23	30.22	4.85	23.98	51.84	74.00	PK	PASS
	H	2390.00	44.73	30.22	4.85	23.98	43.34	54.00	AV	PASS
	H	2400.00	53.52	30.22	4.85	23.98	52.13	74.00	PK	PASS
	H	2400.00	44.61	30.22	4.85	23.98	43.22	54.00	AV	PASS
	V	2390.00	54.85	30.22	4.85	23.98	53.46	74.00	PK	PASS
	V	2390.00	44.07	30.22	4.85	23.98	42.68	54.00	AV	PASS
	V	2400.00	54.87	30.22	4.85	23.98	53.48	74.00	PK	PASS
	V	2400.00	44.75	30.22	4.85	23.98	43.36	54.00	AV	PASS
	HighChannel 2462MHz									
	H	2483.50	54.46	30.22	4.85	23.98	53.07	74.00	PK	PASS
	H	2483.50	44.03	30.22	4.85	23.98	42.64	54.00	AV	PASS
	H	2500.00	54.58	30.22	4.85	23.98	53.19	74.00	PK	PASS
	H	2500.00	44.86	30.22	4.85	23.98	43.47	54.00	AV	PASS
	V	2483.50	54.96	30.22	4.85	23.98	53.57	74.00	PK	PASS
	V	2483.50	44.78	30.22	4.85	23.98	43.39	54.00	AV	PASS
	V	2500.00	54.20	30.22	4.85	23.98	52.81	74.00	PK	PASS
	V	2500.00	44.30	30.22	4.85	23.98	42.91	54.00	AV	PASS
802.11g	LowChannel 2412MHz									
	H	2390.00	53.99	30.22	4.85	23.98	52.60	74.00	PK	PASS
	H	2390.00	44.14	30.22	4.85	23.98	42.75	54.00	AV	PASS
	H	2400.00	54.73	30.22	4.85	23.98	53.34	74.00	PK	PASS
	H	2400.00	44.77	30.22	4.85	23.98	43.38	54.00	AV	PASS
	V	2390.00	53.64	30.22	4.85	23.98	52.25	74.00	PK	PASS
	V	2390.00	44.28	30.22	4.85	23.98	42.89	54.00	AV	PASS
	V	2400.00	53.01	30.22	4.85	23.98	51.62	74.00	PK	PASS
	V	2400.00	44.46	30.22	4.85	23.98	43.07	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	54.43	30.22	4.85	23.98	53.04	74.00	PK	PASS
	H	2483.50	44.32	30.22	4.85	23.98	42.93	54.00	AV	PASS
	H	2500.00	54.65	30.22	4.85	23.98	53.26	74.00	PK	PASS
	H	2500.00	44.22	30.22	4.85	23.98	42.83	54.00	AV	PASS
	V	2483.50	54.61	30.22	4.85	23.98	53.22	74.00	PK	PASS
	V	2483.50	44.39	30.22	4.85	23.98	43.00	54.00	AV	PASS
	V	2500.00	54.06	30.22	4.85	23.98	52.67	74.00	PK	PASS
	V	2500.00	44.71	30.22	4.85	23.98	43.32	54.00	AV	PASS
Remark:										
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit										



802.11n20	LowChannel 2412MHz									
	H	2390.00	53.77	30.22	4.85	23.98	52.38	74.00	PK	PASS
	H	2390.00	44.11	30.22	4.85	23.98	42.72	54.00	AV	PASS
	H	2400.00	53.87	30.22	4.85	23.98	52.48	74.00	PK	PASS
	H	2400.00	44.30	30.22	4.85	23.98	42.91	54.00	AV	PASS
	V	2390.00	53.64	30.22	4.85	23.98	52.25	74.00	PK	PASS
	V	2390.00	44.25	30.22	4.85	23.98	42.86	54.00	AV	PASS
	V	2400.00	54.25	30.22	4.85	23.98	52.86	74.00	PK	PASS
	V	2400.00	44.55	30.22	4.85	23.98	43.16	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	53.16	30.22	4.85	23.98	51.77	74.00	PK	PASS
	H	2483.50	44.35	30.22	4.85	23.98	42.96	54.00	AV	PASS
	H	2500.00	53.67	30.22	4.85	23.98	52.28	74.00	PK	PASS
	H	2500.00	44.59	30.22	4.85	23.98	43.20	54.00	AV	PASS
	V	2483.50	54.96	30.22	4.85	23.98	53.57	74.00	PK	PASS
	V	2483.50	44.08	30.22	4.85	23.98	42.69	54.00	AV	PASS
	V	2500.00	54.77	30.22	4.85	23.98	53.38	74.00	PK	PASS
	V	2500.00	44.49	30.22	4.85	23.98	43.10	54.00	AV	PASS
802.11n40	LowChannel 2422MHz									
	H	2390.00	54.50	30.22	4.85	23.98	53.11	74.00	PK	PASS
	H	2390.00	44.77	30.22	4.85	23.98	43.38	54.00	AV	PASS
	H	2400.00	54.60	30.22	4.85	23.98	53.21	74.00	PK	PASS
	H	2400.00	44.68	30.22	4.85	23.98	43.29	54.00	AV	PASS
	V	2390.00	53.27	30.22	4.85	23.98	51.88	74.00	PK	PASS
	V	2390.00	44.68	30.22	4.85	23.98	43.29	54.00	AV	PASS
	V	2400.00	54.10	30.22	4.85	23.98	52.71	74.00	PK	PASS
	V	2400.00	44.76	30.22	4.85	23.98	43.37	54.00	AV	PASS
	High Channel 2452MHz									
	H	2483.50	53.26	30.22	4.85	23.98	51.87	74.00	PK	PASS
	H	2483.50	44.23	30.22	4.85	23.98	42.84	54.00	AV	PASS
	H	2500.00	53.27	30.22	4.85	23.98	51.88	74.00	PK	PASS
	H	2500.00	44.07	30.22	4.85	23.98	42.68	54.00	AV	PASS
	V	2483.50	54.30	30.22	4.85	23.98	52.91	74.00	PK	PASS
	V	2483.50	44.09	30.22	4.85	23.98	42.70	54.00	AV	PASS
	V	2500.00	54.03	30.22	4.85	23.98	52.64	74.00	PK	PASS
	V	2500.00	44.79	30.22	4.85	23.98	43.40	54.00	AV	PASS
Remark:										
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit										



6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

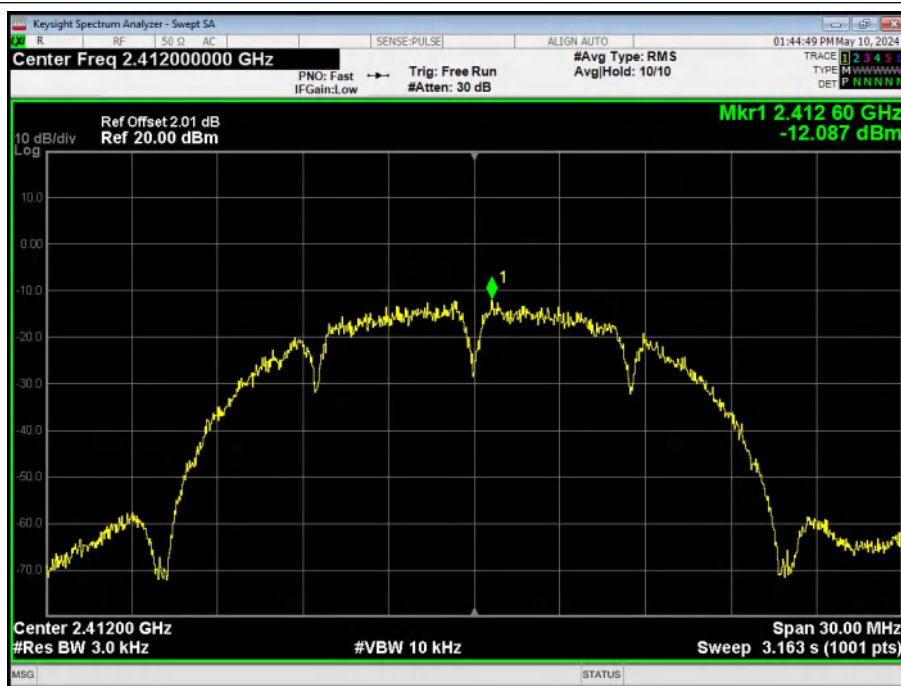


6.6 TEST RESULT

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode		

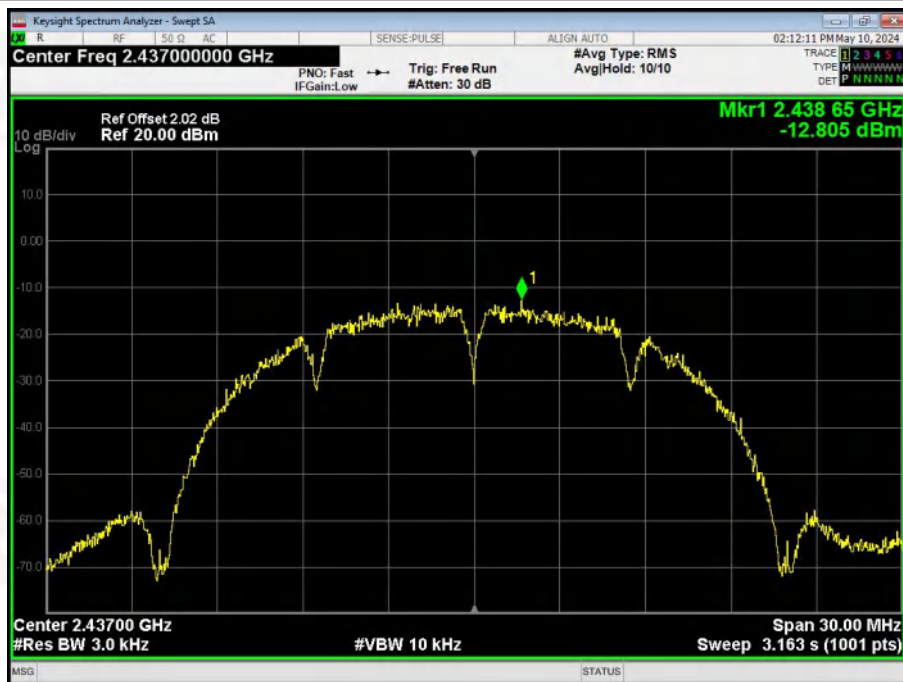
Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-12.087	8	PASS
2437 MHz	-12.805	8	PASS
2462 MHz	-12.331	8	PASS

TX CH01





TX CH06



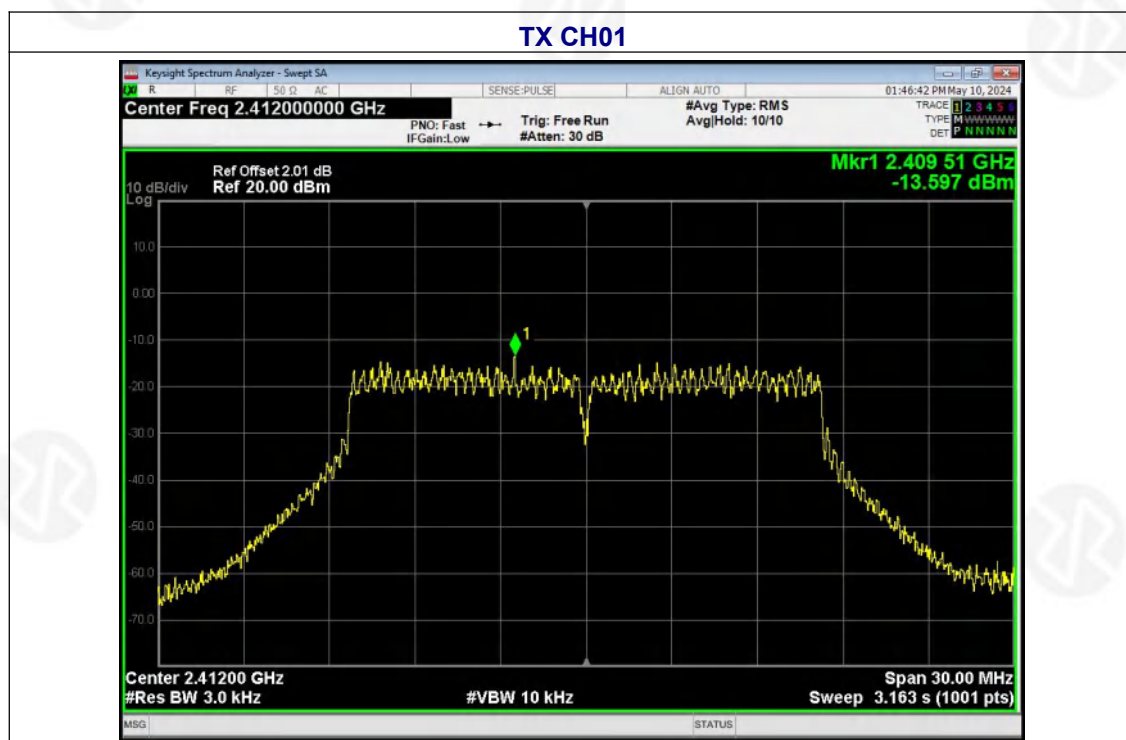
TX CH11





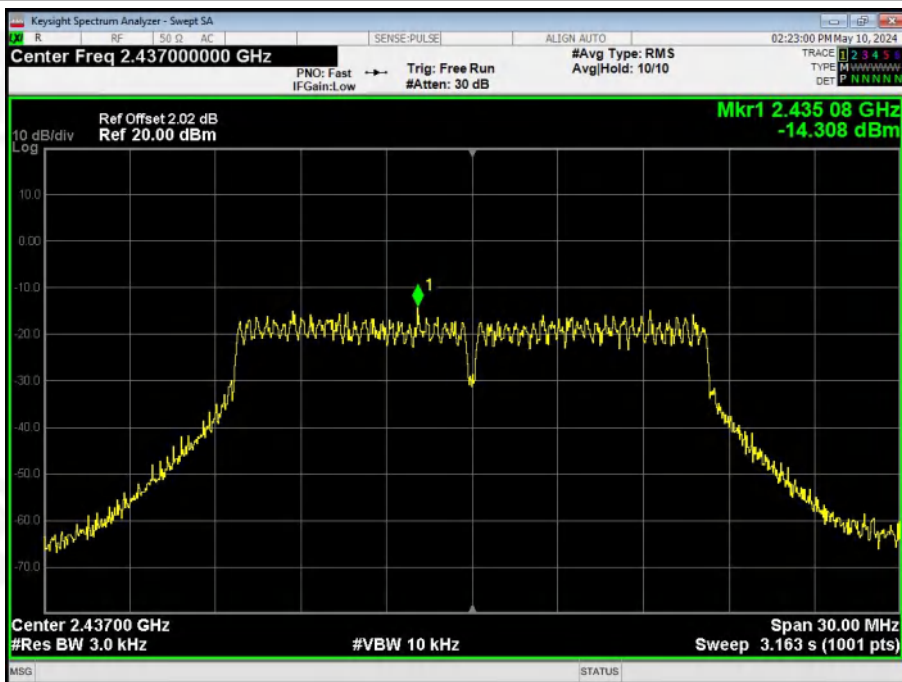
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60Hz
Test Mode :	TX g Mode		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-13.597	8	PASS
2437 MHz	-14.308	8	PASS
2462 MHz	-15.337	8	PASS

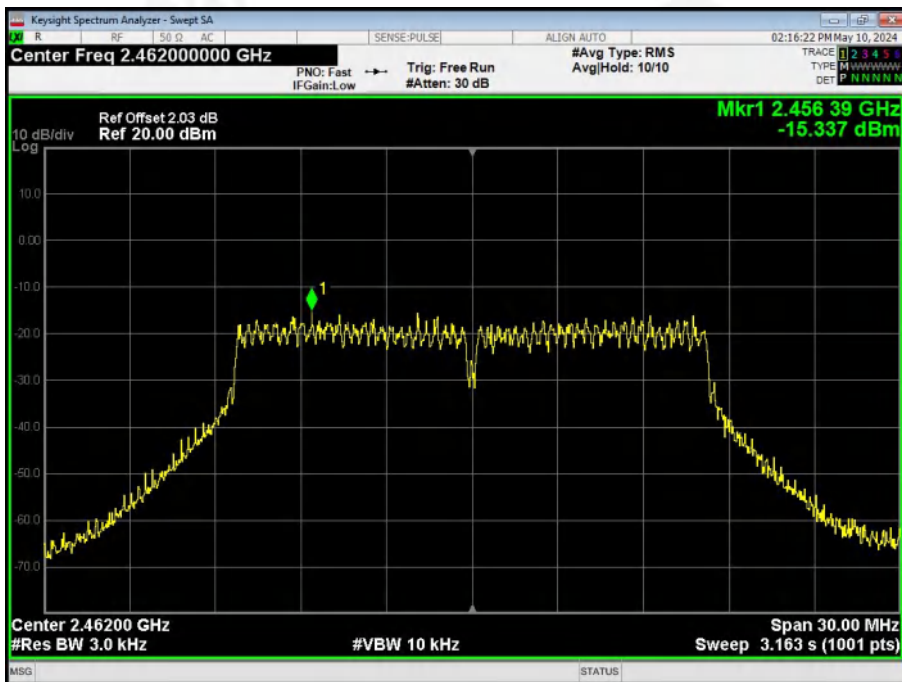




TX CH06



TX CH11

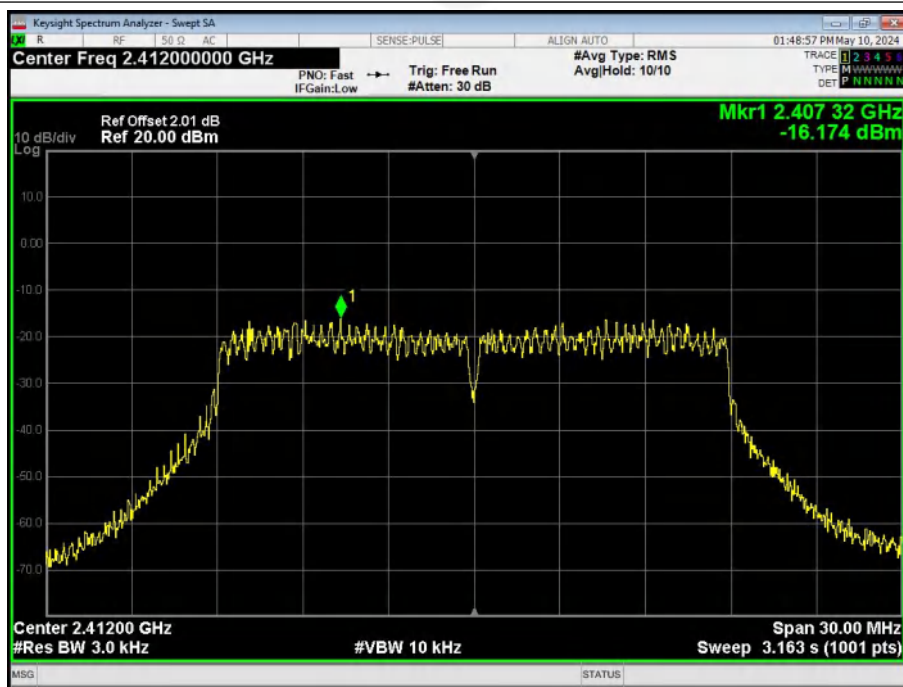




Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60Hz
Test Mode :	TX n Mode(20M)		

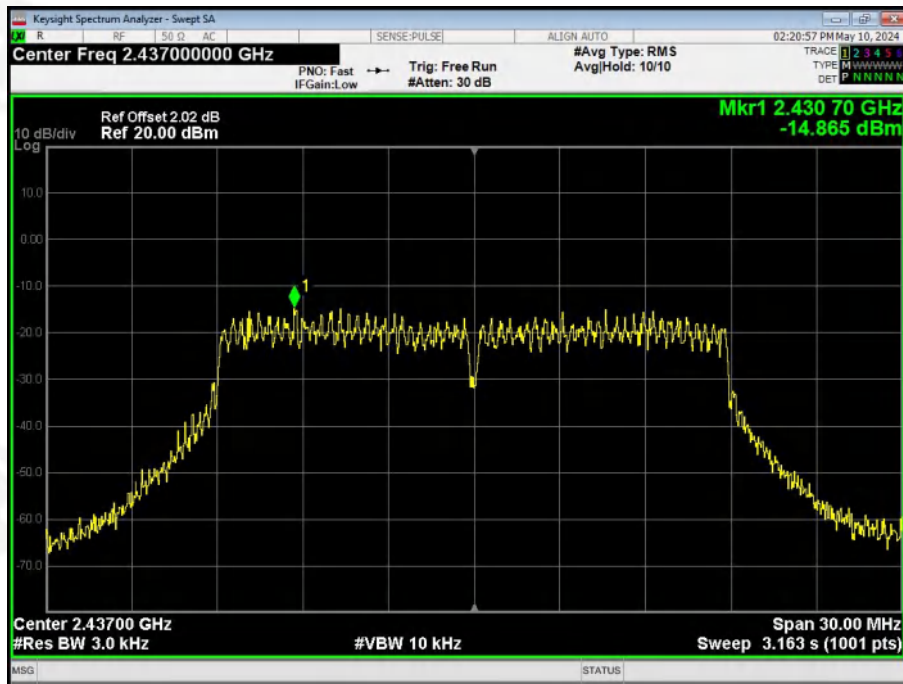
Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-16.174	8	PASS
2437 MHz	-14.865	8	PASS
2462 MHz	-15.99	8	PASS

TX CH01

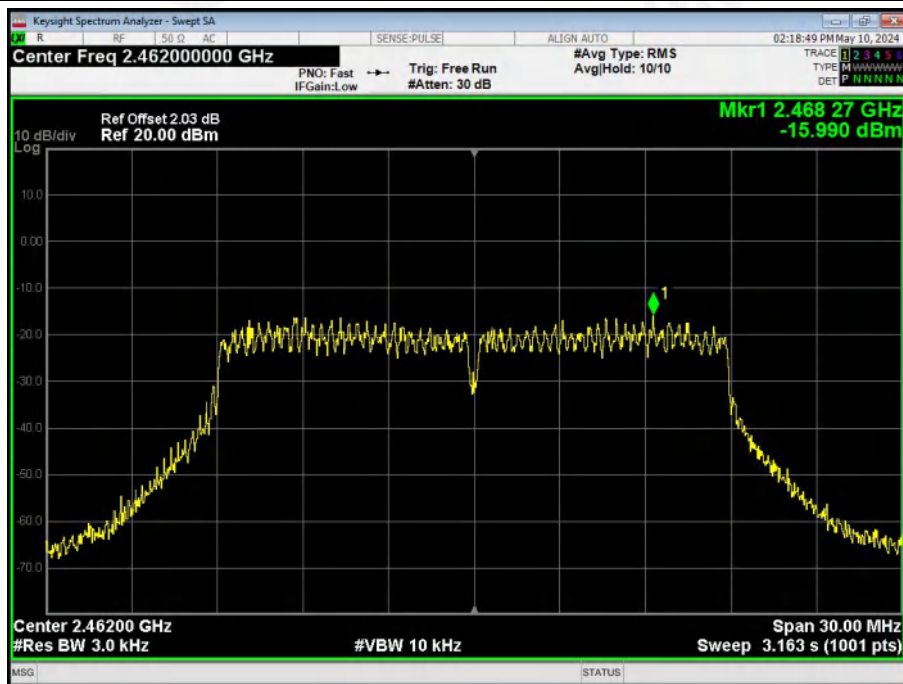




TX CH06



TX CH11

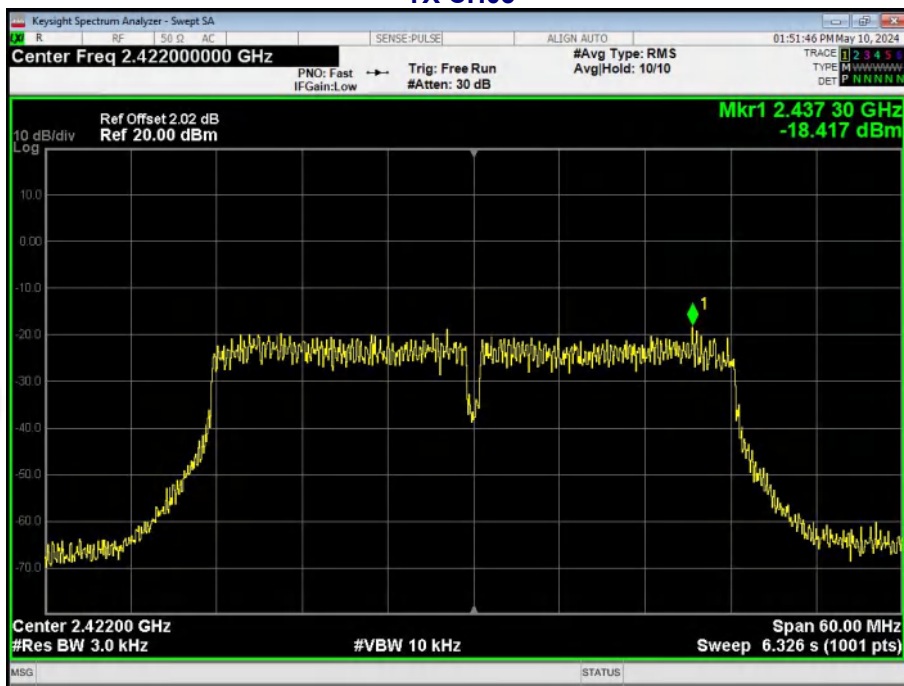




Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60Hz
Test Mode :	TX n Mode(40M)		

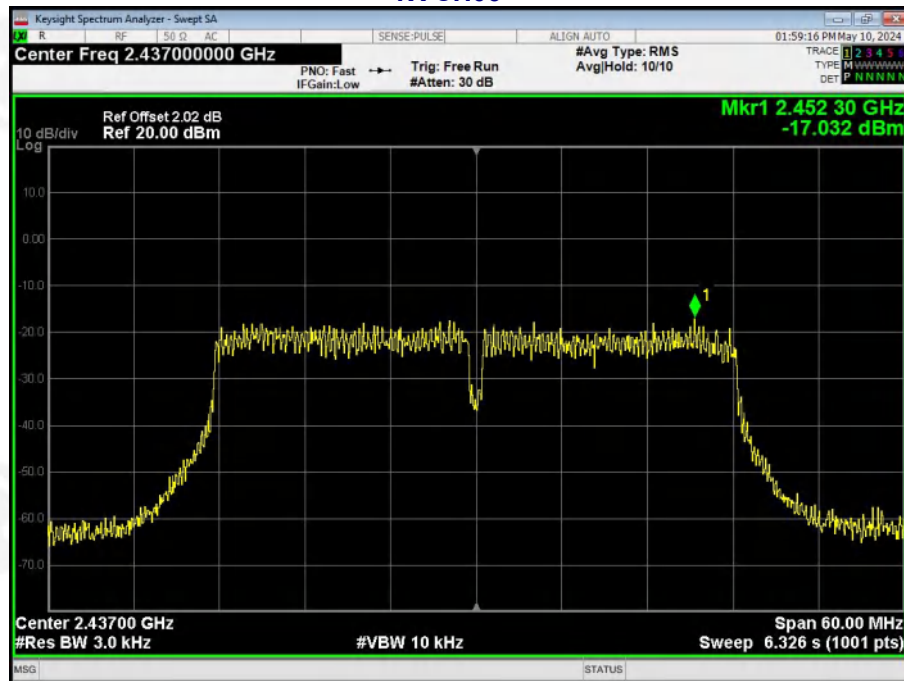
Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422 MHz	-18.417	8	PASS
2437 MHz	-17.032	8	PASS
2452 MHz	-19.125	8	PASS

TX CH03

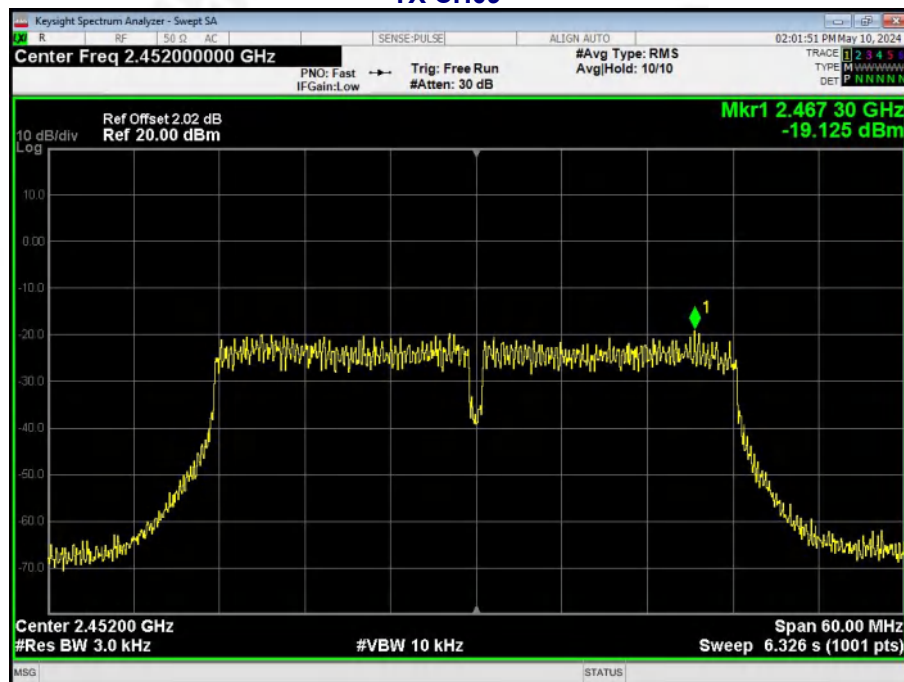




TX CH06



TX CH09





7. CHANNEL BANDWIDTH OCCUPY BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



7.6 TEST RESULT

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode		

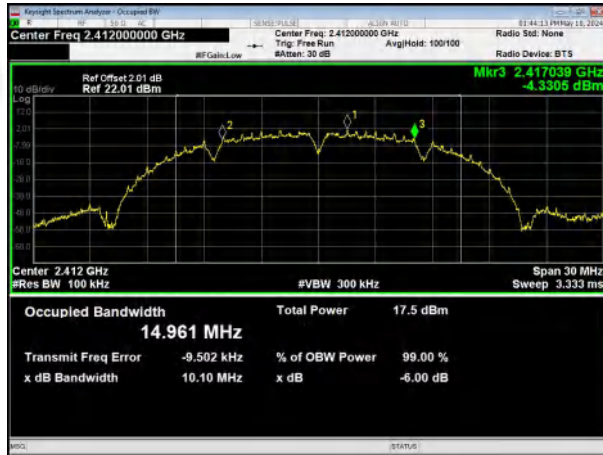
Test CH	-6dB Occupy Bandwidth (MHz)					Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(KHz)	
Lowest	10.098	16.315	16.711	35.437	>500	Pass
Middle	10.051	16.304	16.78	35.402		
Highest	10.068	16.326	16.551	35.18		



Test plot as follows:

Lowest channel

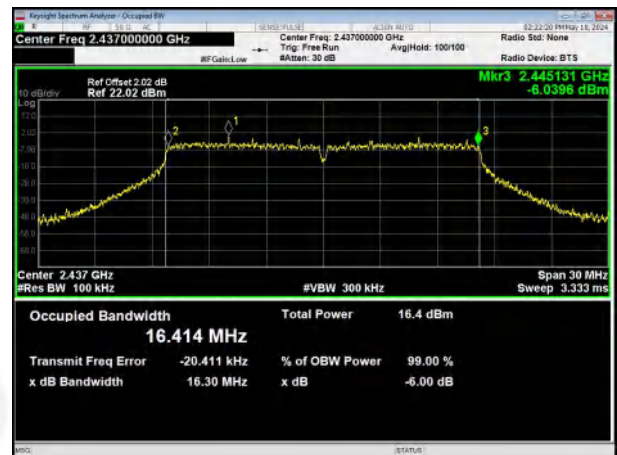
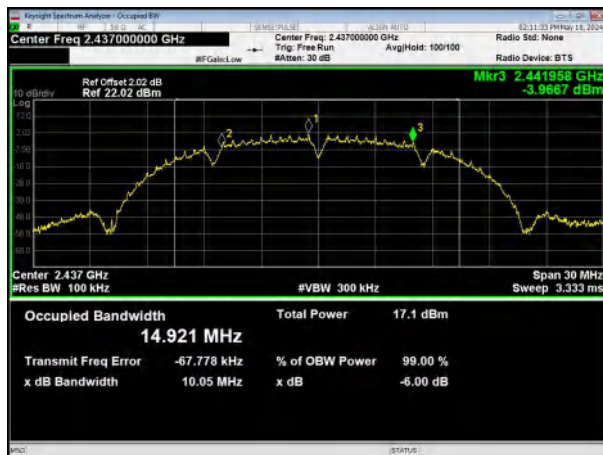
802.11b



802.11g



Middle channel



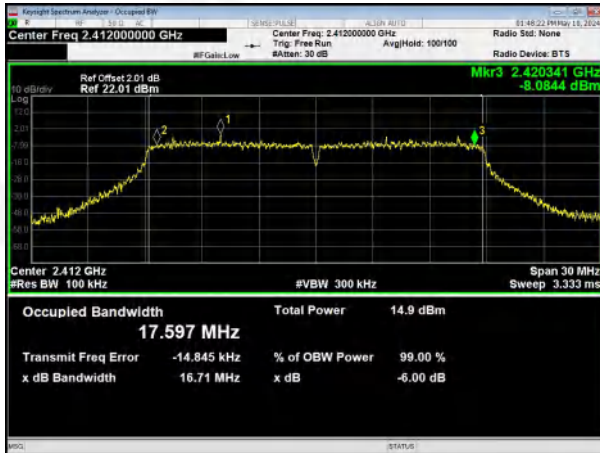
Highest channel





Lowest channel

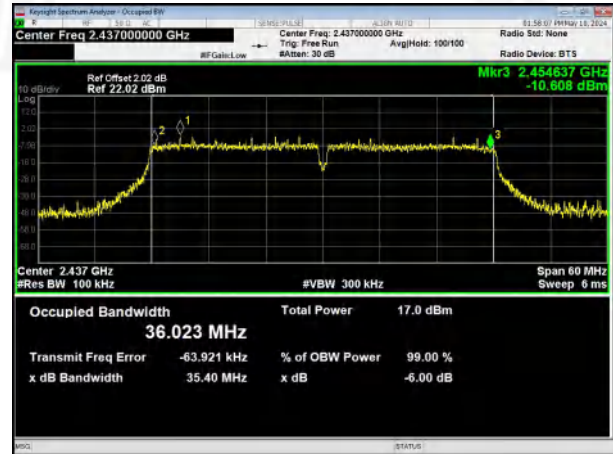
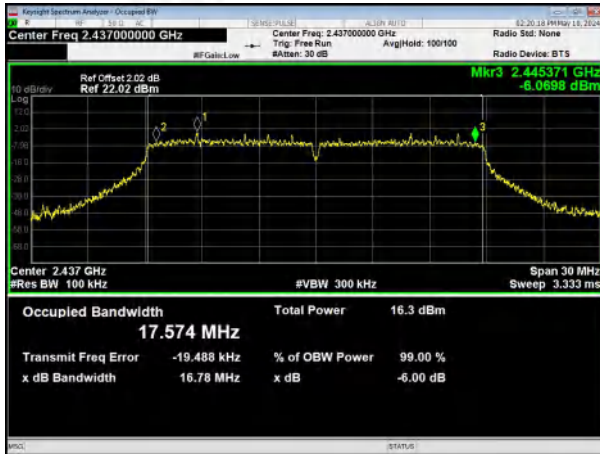
802.11n20



802.11n40



Middle channel



Highest channel





8. PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

8.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.6 TEST RESULT

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n20	802.11n40		
Lowest	12.698	15.38	13.716	14.05	30.00	Pass
Middle	12.336	15.093	14.842	15.598		
Highest	11.329	14.067	13.596	13.408		



9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

9.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

- A) Set the RBW = 100KHz.
- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

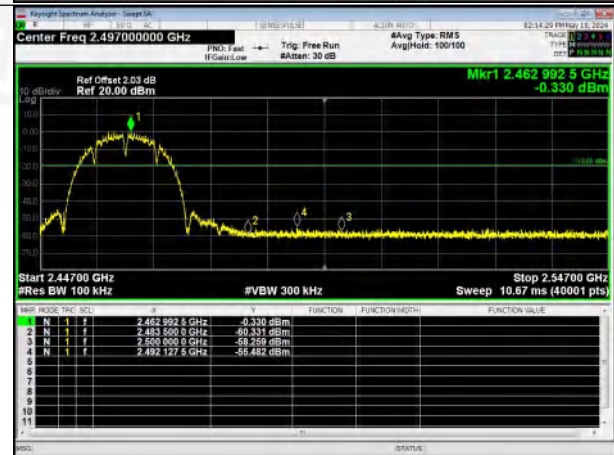
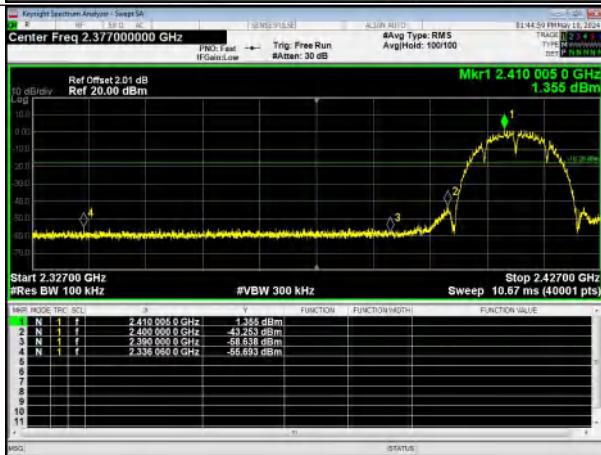
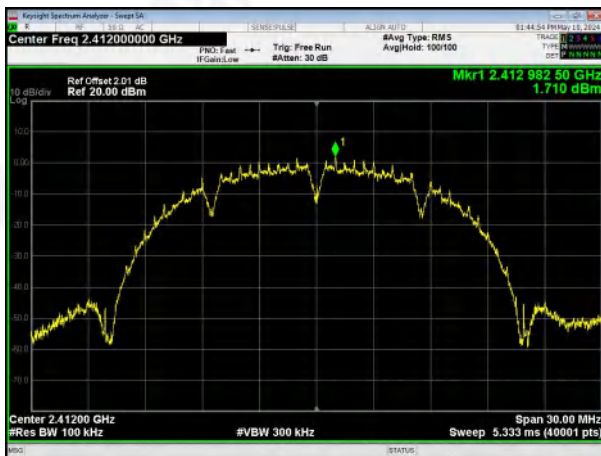
9.6 TEST RESULTS



Test plot as follows:

Test mode:

802.11b



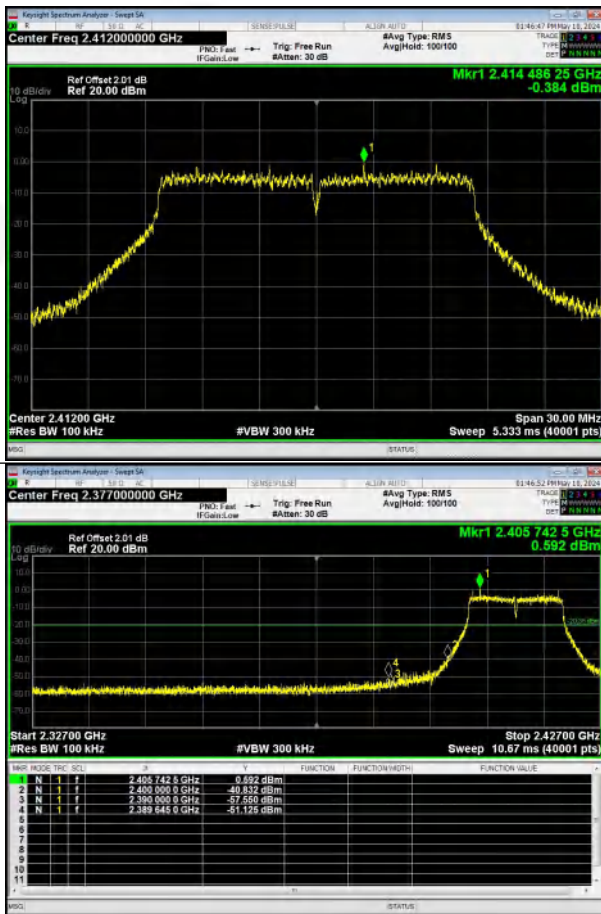
Lowest channel

Highest channel

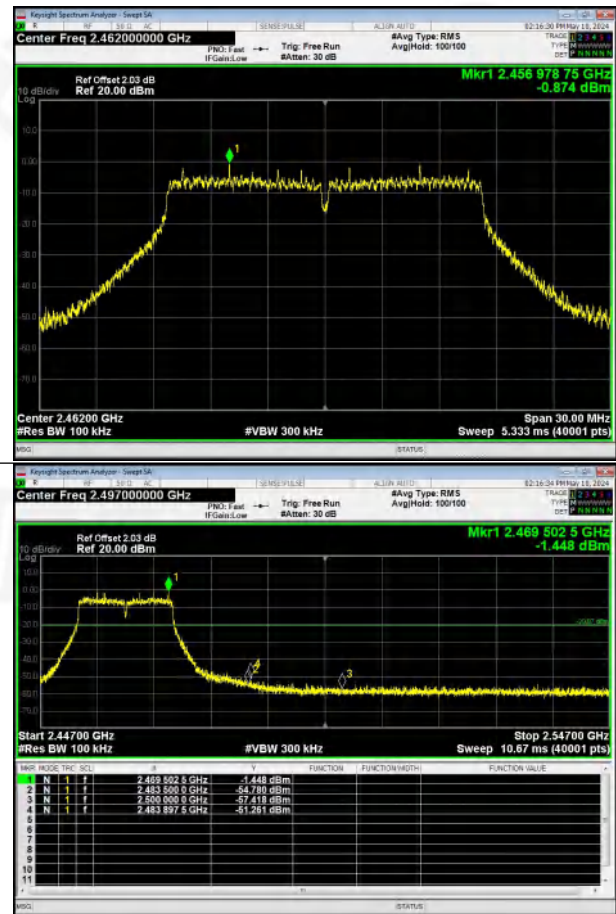


Test mode:

802.11g

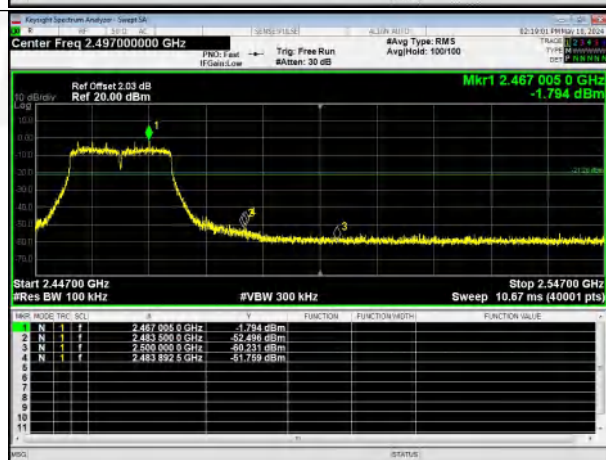
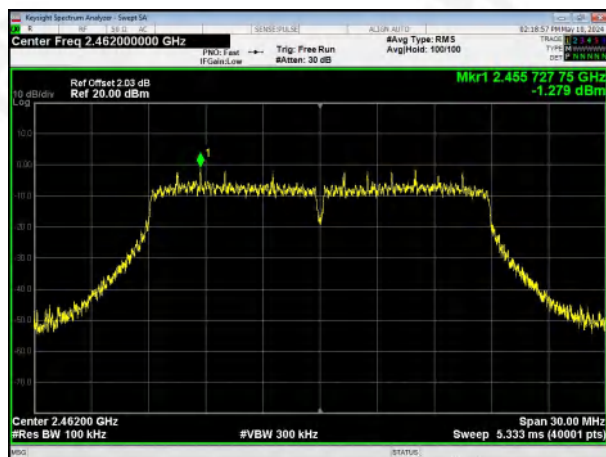


Lowest channel



Highest channel



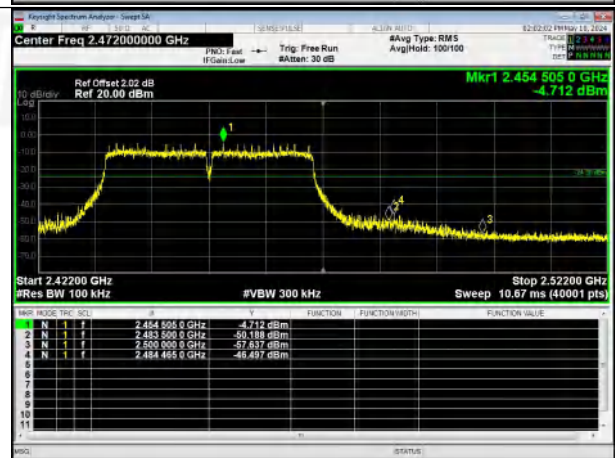
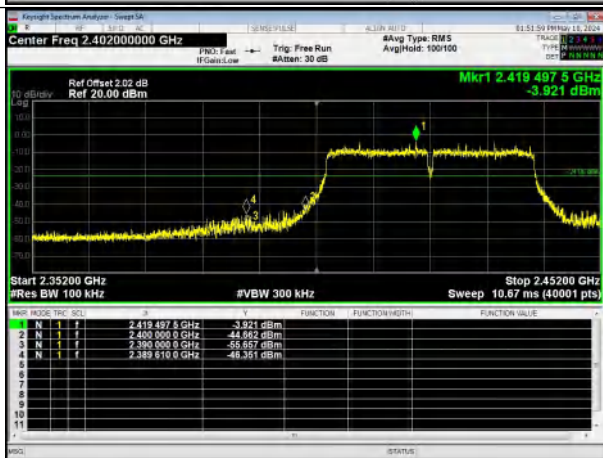
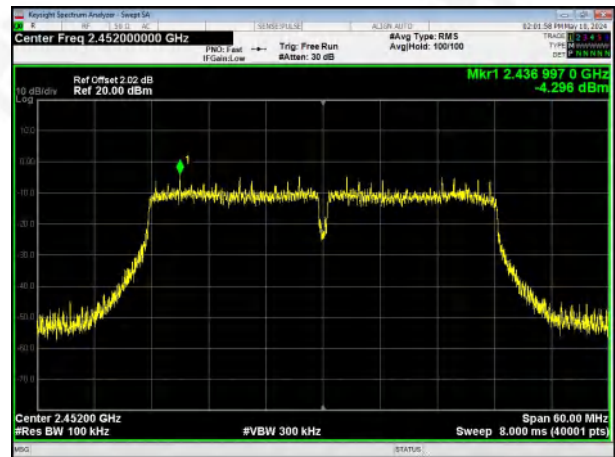
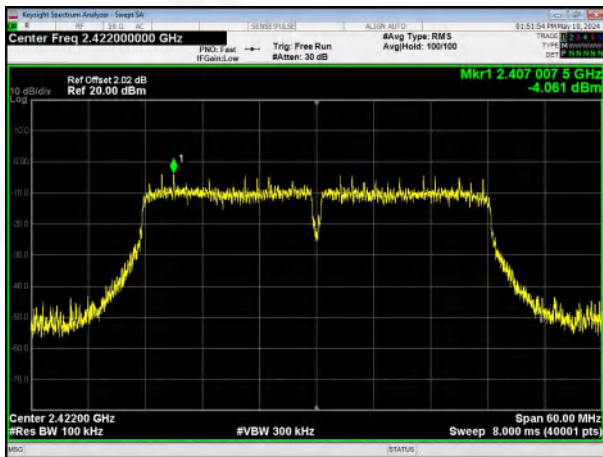
802.11n(HT20)

Highest channel



Test mode:

802.11n(HT40)



Lowest channel

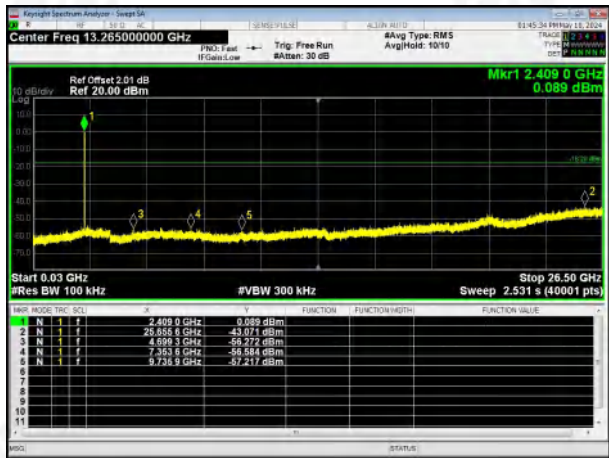
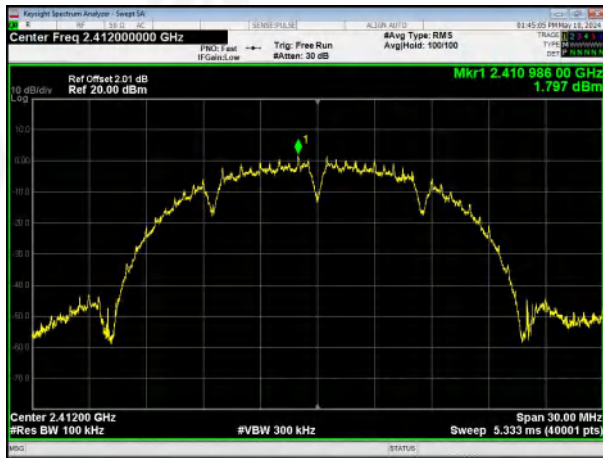
Highest channel



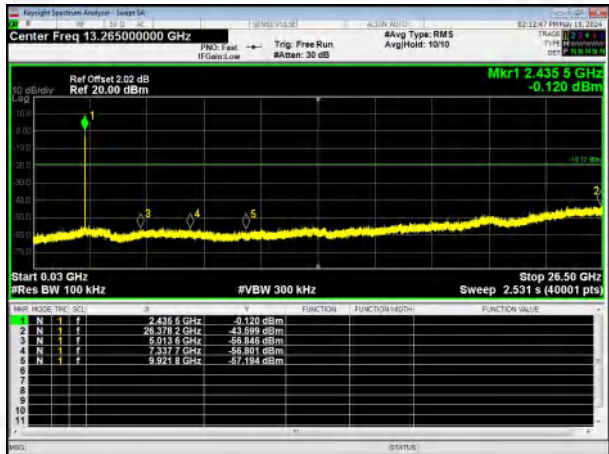
Test plot as follows:

802.11b

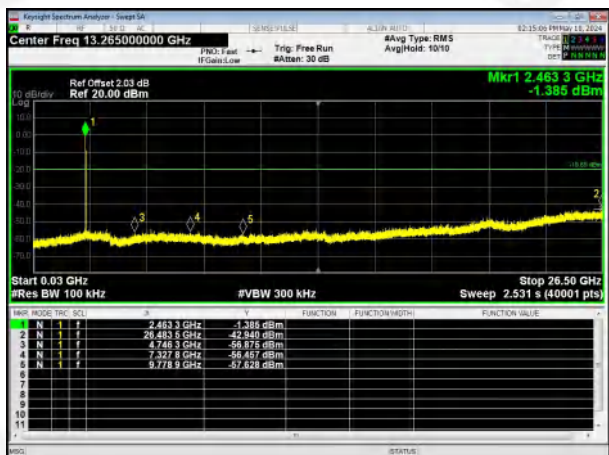
Lowest channel



Middle channel

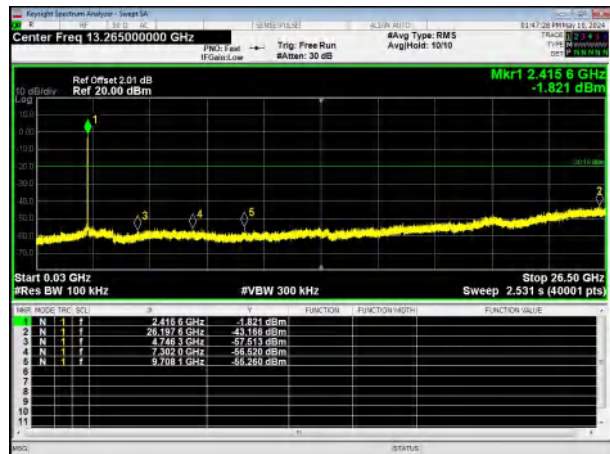
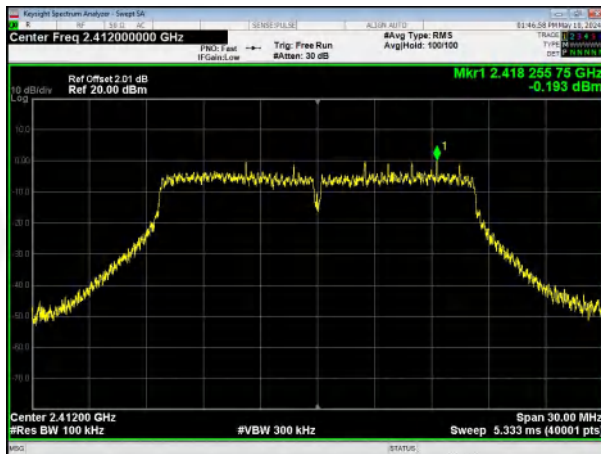


Highest channel

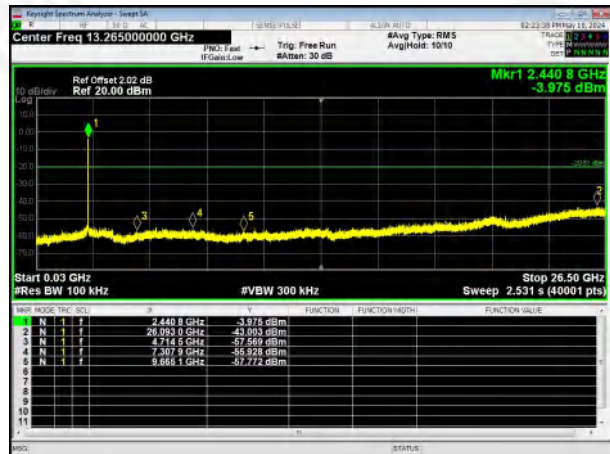
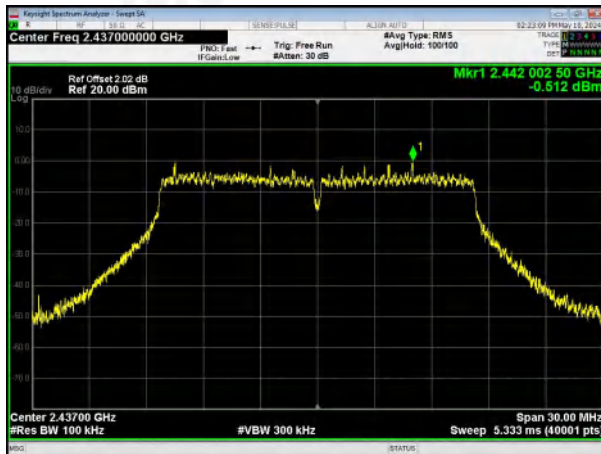




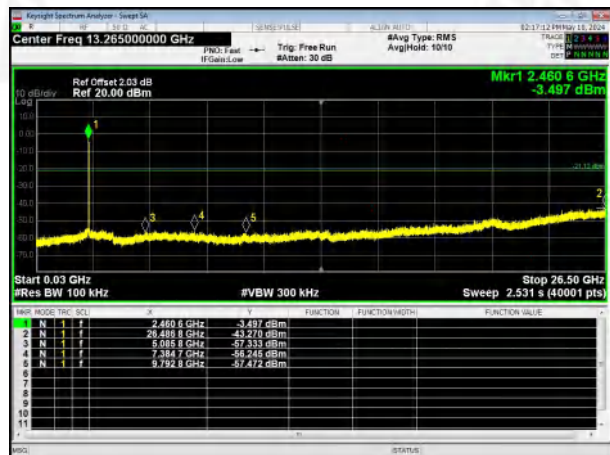
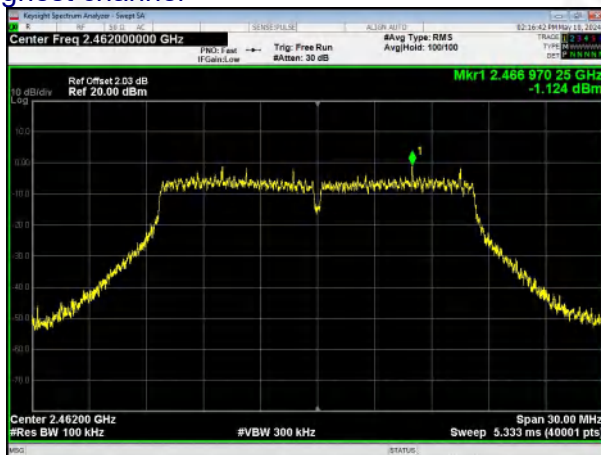
802.11g Lowest channel



Middle channel

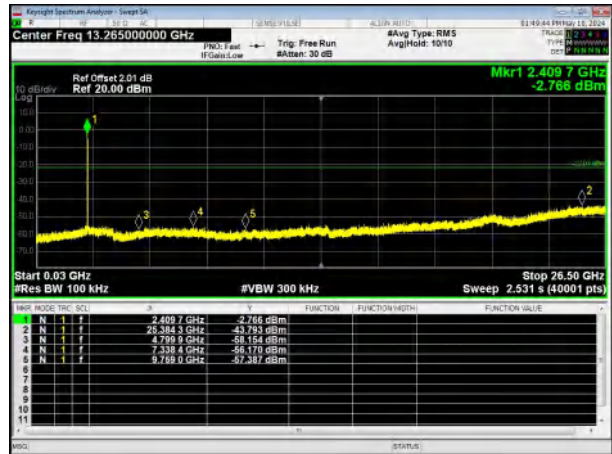
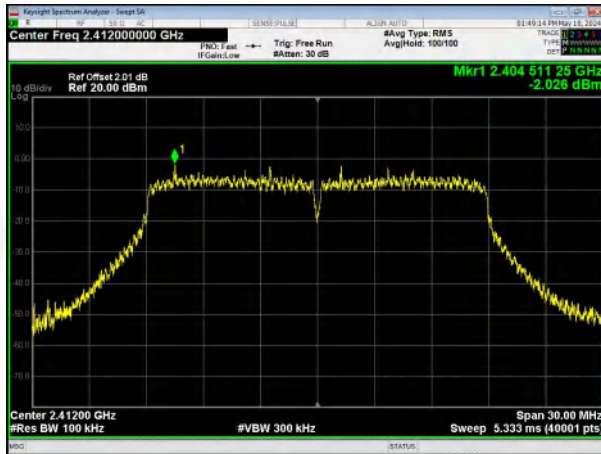


Highest channel

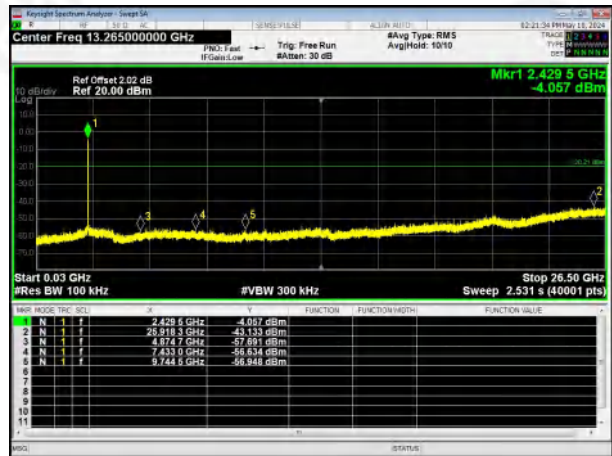
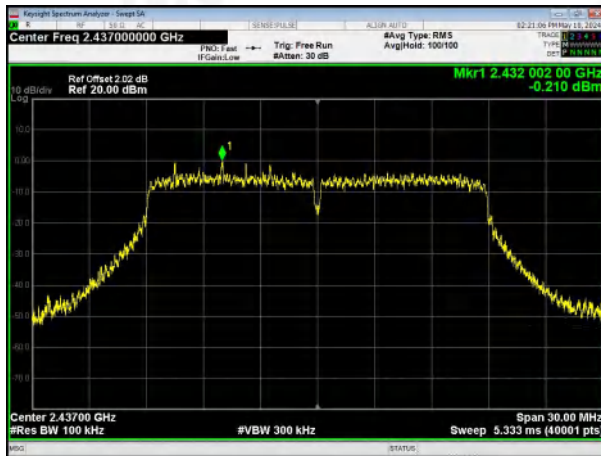




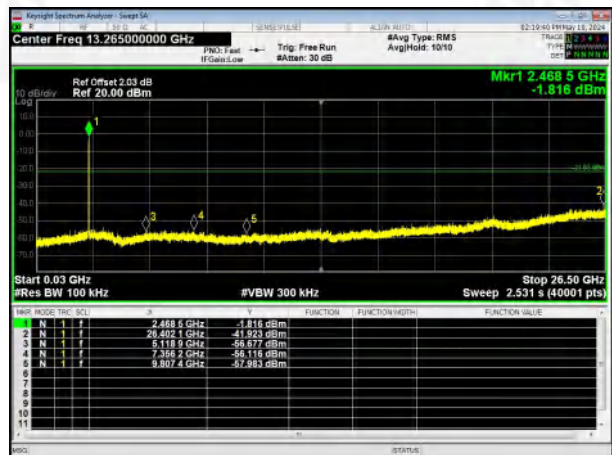
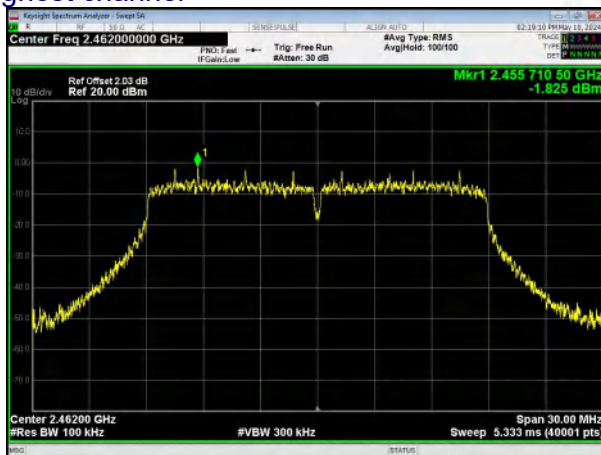
802.11n(HT20) Lowest channel



Middle channel

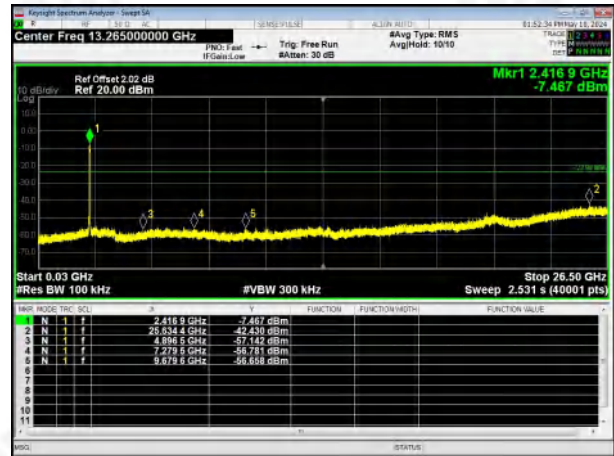
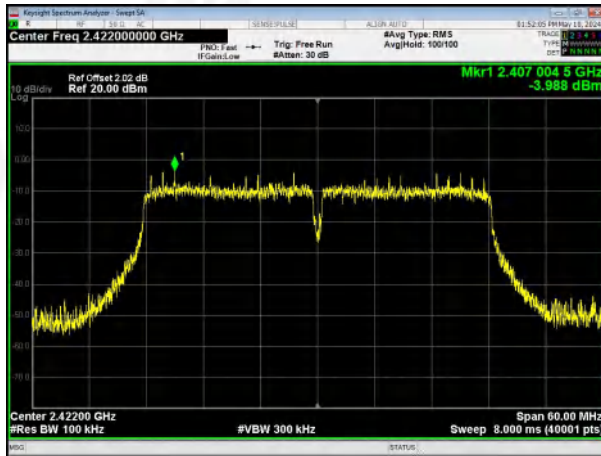


Highest channel

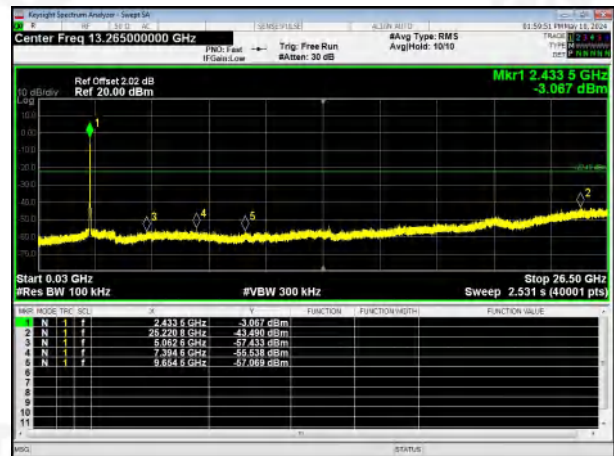
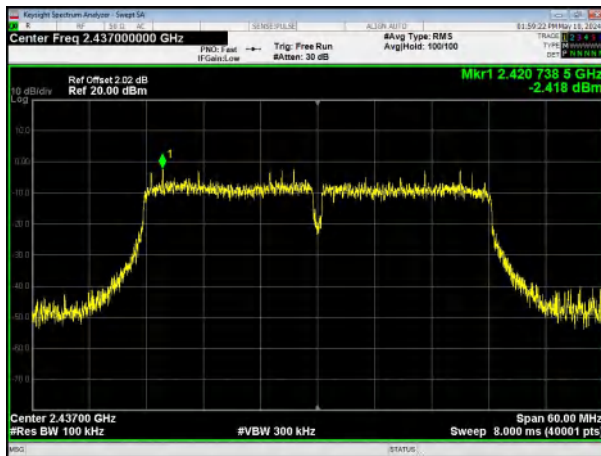




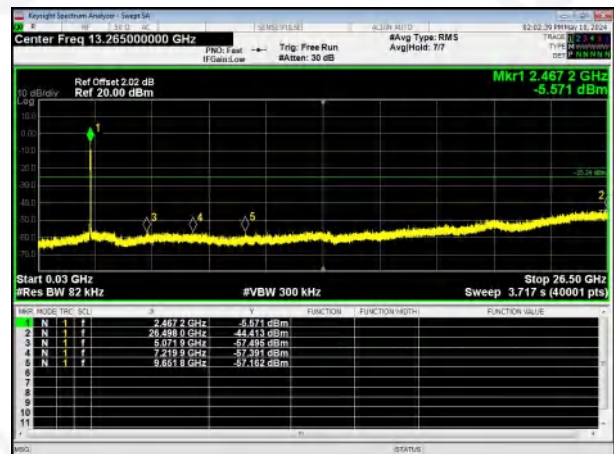
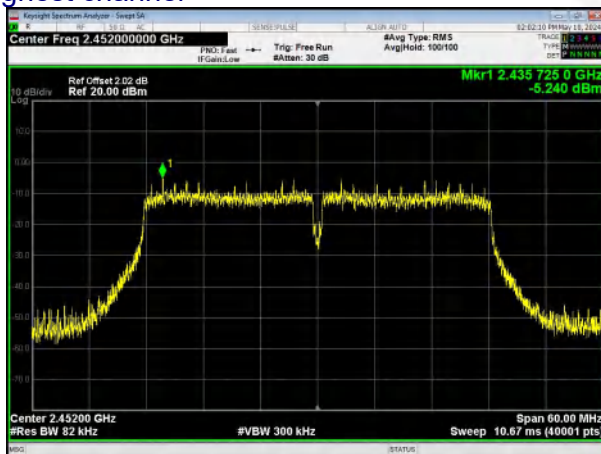
802.11n(HT40) Lowest channel



Middle channel



Highest channel





10. DUTY CYCLE

Test Method:	ANSI C63.10:2013
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10.1 APPLIED PROCEDURES / LIMIT

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

10.2 DEVIATION FROM STANDARD

No deviation.

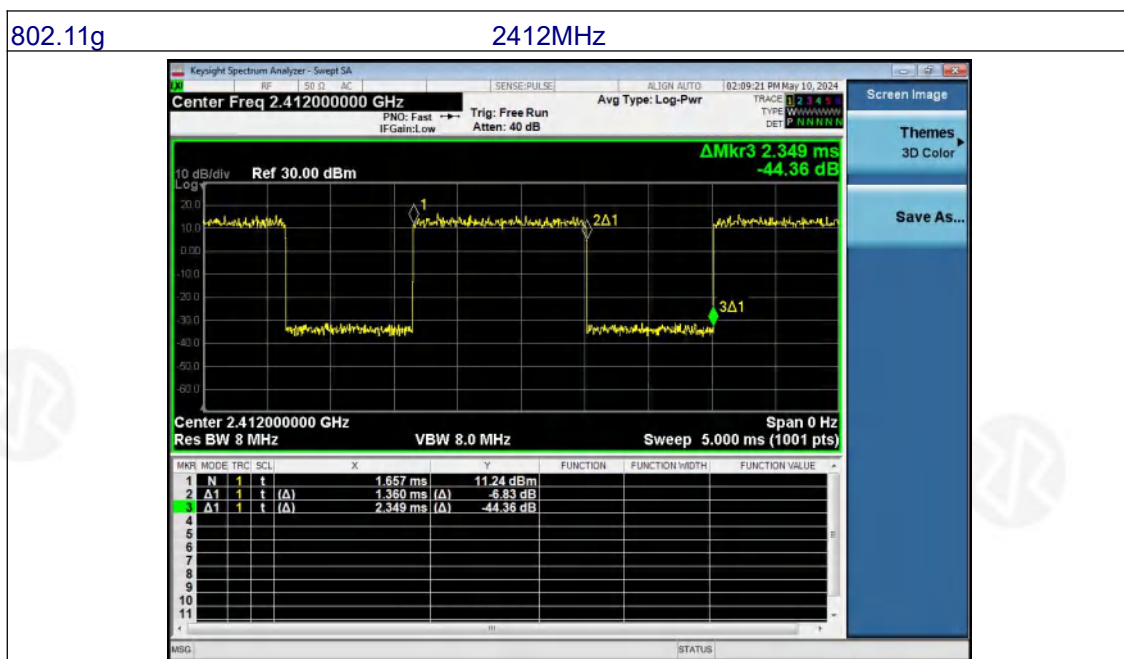
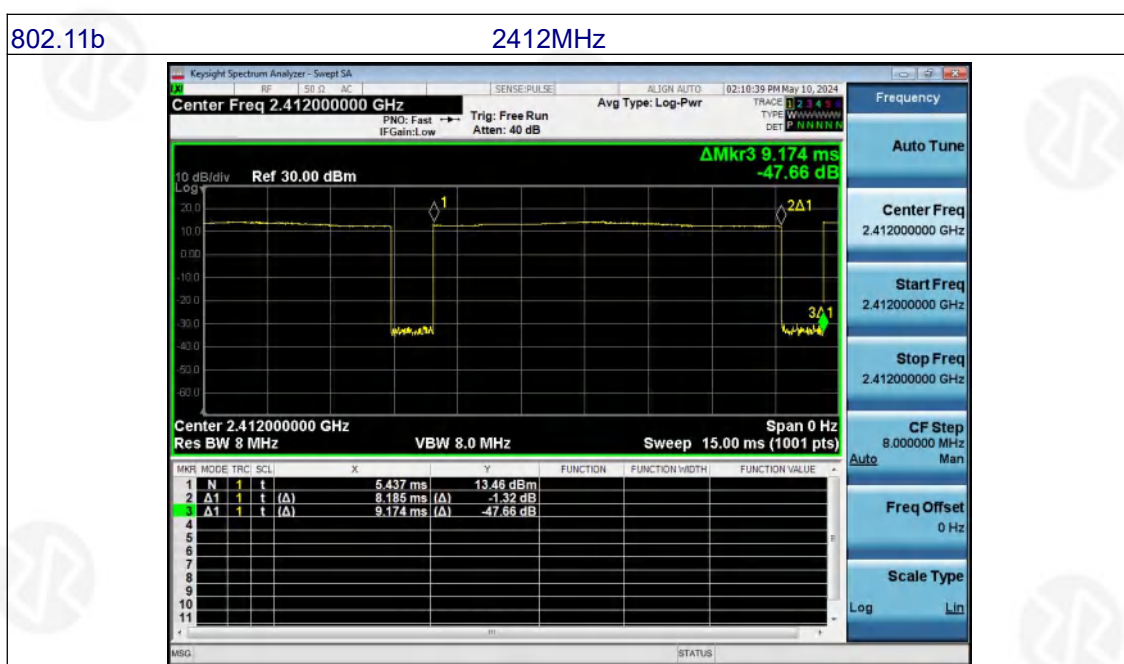
10.3 TEST SETUP





10.4 TEST RESULTS

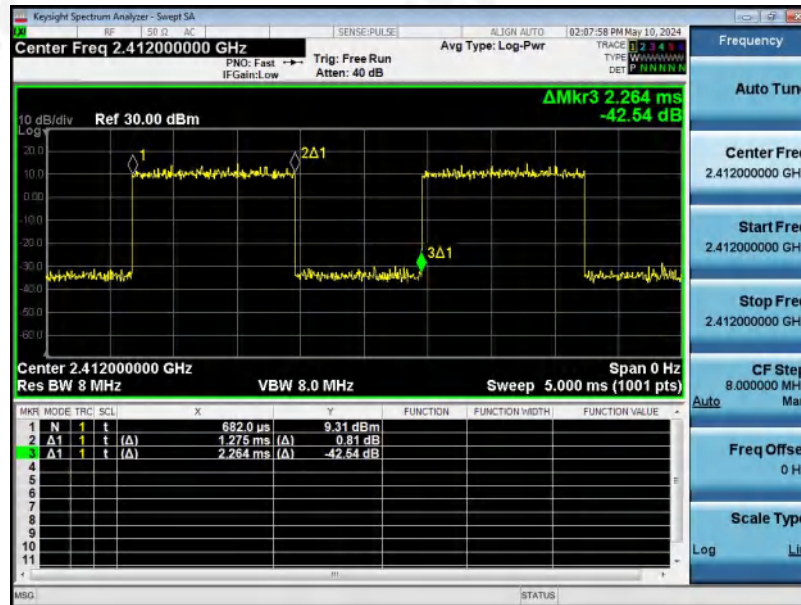
Mode	Frequency (MHz)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Result
802.11b	2412	89.22	0.50	Pass
802.11g	2412	57.90	2.37	Pass
802.11n20	2412	56.32	2.49	Pass
802.11n40	2412	38.67	4.13	Pass





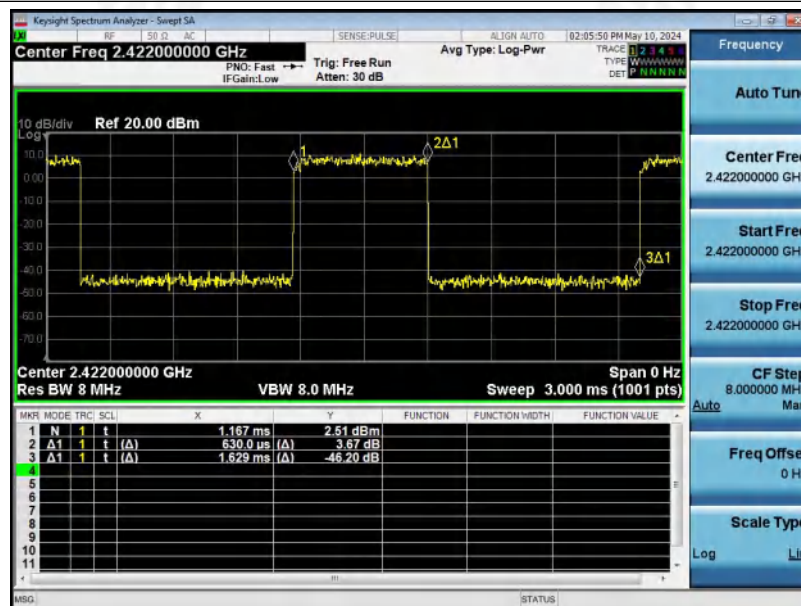
802.11n20

2412MHz



802.11n40

2422MHz



Note: All channel have been tested, and the report only reflects the worst case data.

Duty Cycle= Ton /Total*100%

Duty Cycle Correction Factor = 10log (1/Duty Cycle)



11. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. A transmitter can only be sold or operated with antennas with which it was approved.	
EUT Antenna:	
The antenna is PCB Antenna, the best case gain of the antenna is 1.68dBi, reference to the appendix II for details	



12. TEST SETUP PHOTO

Reference to the appendix I for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****